

# City of Rowlett Official Copy

4000 Main Street Rowlett, TX 75088 www.rowlett.com

Ordinance: ORD-033-16

AN ORDINANCE OF THE CITY OF ROWLETT, TEXAS, UPDATING AND ADOPTING REVISED LAND USE ASSUMPTIONS AND THE CAPITAL IMPROVEMENT PLAN FOR ROADWAY FACILITIES; AMENDING THE MASTER FEE SCHEDULE TO REVISE THE IMPACT FEES FOR ROADWAY FACILITIES; PROVIDING FOR SERVICE AREAS AND SERVICE UNITS; PROVIDING A REPEALING CLAUSE; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City Council of the City of Rowlett has previously adopted land use assumptions, on which the City's Capital Improvements Plan was based, and adopted certain impact fees in the City's Master Fee Schedule for roadway facilities for the financing of capital improvements required by new development in the City; and

WHEREAS, the City has contracted with Kimley-Horn and Associates, Inc., to prepare an Impact Fee Study and to review and advise on whether changes in the City's land use assumptions were warranted; and

WHEREAS, Kimley-Horn has completed such plan, entitled, "2016 Roadway Impact Fee Minor Update," which plan has been submitted to and considered by the City Council, following public hearing, on September 6, 2016; and

**WHEREAS,** the City Council finds that it is in the best interest of the City and its citizens to approve and adopt the revised land use assumptions and capital improvements plan revisions recommended by Kimley-Horn, and to revise its impact fees accordingly; and

**WHEREAS**, the City Council of the City of Rowlett, in compliance with state laws with reference to amending its land use assumptions, capital improvements plan, and impact fees, have given the requisite notice by publication and otherwise, and after holding due hearings and affording a full and fair hearing to all property owners generally, the governing body of the City of Rowlett is of the opinion that said land use assumptions, capital improvements plan, and impact fees should be amended as provided herein.

Now Therefore be it ordained BY the City Council of the City of Rowlett, TEXAS:

**SECTION 1.** That the City's previously-adopted Land Use Assumptions and Capital Improvements Plan for roadway facilities be and are hereby amended by updating and adopting the "2016 Roadway Impact Fee Minor Update," prepared by Kimley-Horn and Associates, Inc., as the amended land use assumptions for roadway facilities, and the

capital improvements plan of the City of Rowlett for roadway impact fees, a copy of which is attached hereto and incorporated herein as Exhibit A

**SECTION 2.** That the impact fee rates and charges for roadway impact fees, based on Service Area 2, land use category, and development unit, as set forth in Exhibit "B," which is attached hereto and by this reference incorporated herein, be and are hereby adopted.

<u>SECTION 3.</u> That the Master Fee Schedule of the City of Rowlett, Texas, be and is hereby amended by repealing the section entitled "Roadway Impact Fees Service Area 1 and Service Area 2," and replacing said section with a new section, entitled "Roadway Impact Fees Service Area 1 and Service Area 2," and the tables shown in Exhibit "C," which exhibit is attached hereto and by this reference incorporated herein, and are hereby adopted as the Impact Fees for the City of Rowlett, Texas for the Service Areas shown therein. The tables shown in Exhibit "C" shall replace the existing Roadway Impact Fees Service Area 1 and Service Area 2 tables shown in the Master Fee Schedule and the fees adopted herein shall be effective and shall henceforth be charged for applicable new development of and from the effective date of this ordinance.

**SECTION 4.** All ordinances and provisions of the City of Rowlett, Texas, that are in conflict with this Ordinance shall be repealed and the same hereby repealed, and all ordinances and provisions of ordinances of said City is not so repealed are hereby retained in full force and effect.

**SECTION 5.** That should any section, paragraph, subdivision, clause, phrase or provision of this ordinance shall be judged invalid or unconstitutional, the same shall not affect the validity of this ordinance as a whole or any portion thereof other than that portion so decided to be invalid or unconstitutional.

**SECTION 6.** This ordinance shall take effect immediately from and after its passage as the law and charter in such case provide.

At a meeting of the City Council on September 6, 2016 this Ordinance be adopted. The motion carried by the following vote:

Ayes: 6 Mayor Pro Tem Dana-Bashian, Deputy Mayor Pro Tem Sheffield, Councilmember van Bloemendaal, Councilmember Hargrave, Councilmember Brown and Councilmember Bobbitt.

**Absent: 1** Mayor Gottel

Approved by Janasa Jana Jaskian Mayor Pro/Tem	Date <u>September 6, 2016</u>
Approved to form by City Attorney	Date <u>September 6, 2016</u>
City Secretary	Date <u>September 6, 2016</u>
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## 2016 Roadway Impact Fee Minor Update

# City of Rowlett, Texas



## Prepared by:



Texas Registration Number 928

801 Cherry Street, Unit 11, Suite 950 Fort Worth, TX 76102 817.335.6511

**June 2016** 

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#### 2.1 **EXECUTIVE SUMMARY**

This study was performed to update the City of Rowlett Roadway Impact Fees. Transportation system analysis is an important tool for facilitating orderly growth of the transportation system and for providing adequate facilities that promote economic development in the City of Rowlett. The implementation of an impact fee is a way to shift a portion of the burden of paying for new facilities onto new development.

The City of Rowlett is divided into two (2) service areas for the purposes of the 2016 Roadway Impact Fee Minor Update. These service areas cover the entire corporate boundary of the City of Rowlett, which has expanded since the 2013 Roadway Impact Fee Study to include the Bayside Area. Each service area is an individual study area. For each service area the funds collected must be spent on projects identified in the Roadway Impact Fee Capital Improvement Program (CIP) for that specific service area. The 2016 Roadway Impact Fee Minor Update only effects Service Area 2 (South). Service Area 1 (North) remains unchanged.

Roadway improvements necessary to serve the 10-year (2013-2023) needs were evaluated. Typically, infrastructure improvements are sized beyond the 10-year requirements; however, Texas' impact fee law (Chapter 395) only allows recovery of costs to serve the 10-year planning period. For example, the projected recoverable cost to construct the infrastructure needed through 2023 by service area is:

SERVICE AREA:	1 (North)		2 (South)	
COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH	\$	22,001,285	\$	32,809,201

A portion of the remainder can be assessed as the planning window extends beyond 2023 and as the impact fees are updated in the future. As required by Chapter 395 this total cost is reduced by 50% to account for the credit of the use of ad valorem taxes to fund the Roadway Impact Fee CIP.

The impact fee law defines a service unit as follows: "Service Unit means a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years."

Therefore, the City of Rowlett defines a service unit as the number of vehicle-miles of travel during the afternoon peak-hour. For each type of development the City of Rowlett utilizes the Land Use/Vehicle-Mile Equivalency Table (LUVMET) to determine the number of service units.



Based on the City's 10-year growth projections and the associated demand (consumption) values for each service area are as follows in terms of vehicle-miles:

SERVICE AREA:	1 (North)	2 (South)
TOTAL VEHICLE-MILES OF NEW DEMAND OVER TEN YEARS	12,867	35,176

Based on the additional service units and the recoverable capital improvements plans, the City may assess a maximum roadway impact fee per vehicle-mile ([Recoverable Cost of CIP\*50%] / Total Growth) of:

SERVICE AREA:	1 (N	orth)	2 (\$	South)
MAX ASSESSABLE FEE PER SERVICE UNIT	\$	855	\$	466





#### 2.2 INTRODUCTION

Chapter 395 of the Texas Local Government Code describes the procedure Texas cities must follow in order to create and implement impact fees. Senate Bill 243 (SB 243) amended Chapter 395 in September 2001, to define an impact fee as "a charge or assessment imposed by a political subdivision against new development in order to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development."

Chapter 395 mandates that impact fees be reviewed and updated at least every five (5) years. Accordingly, the City of Rowlett developed its Land Use Assumptions and Roadway Capital Improvement Plan (CIP) with which to update the City's Roadway Impact Fees in 2013. The City has retained Kimley-Horn and Associates, Inc. to provide a minor update to the adopted 2013 Roadway Impact Fee Study. This report includes details of the impact fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the CIP, and the refinement of the Land Use Equivalency Table.

This report introduces and references two of the basic inputs to the Roadway Impact Fee: the Land Use Assumptions and the Capital Improvement Plan (CIP). Information from these two components is used extensively in the remainder of the report. This report consists of a detailed discussion of the methodology for the computation of impact fees. This discussion -Methodology for Roadway Impact Fees and Impact Fee Calculation addresses each of the components of the computation and modifications required for the study. The components include:

- Service Areas:
- Service Units;
- Cost Per Service Unit;
- Cost of the CIP;
- Service Unit Calculation;
- Maximum Assessable Impact Fee Per Service Unit; and
- Service Unit Demand Per Unit of Development.

The report also includes a section concerning the Plan for Awarding the Roadway Impact Fee Credit. In the case of the City of Rowlett, the credit calculation was based on awarding a 50 percent credit.

The final section of the report is the **Conclusion**, which presents the findings of the update analysis.



## 2.3 ROADWAY IMPACT FEE CALCULATION INPUTS

#### A. LAND USE ASSUMPTIONS

The land use assumptions used for this report were from the 2013 Roadway Impact Fee Study with the exception of the additional growth that is anticipated as a result of the annexation of the Bayside area. Information regarding this growth has been included in the **Appendix**, in addition to the information regarding the 2013 Roadway Impact Fee Study land use assumptions. For purposes of roadway impact fees, the City of Rowlett was divided into two service areas contained entirely within the current corporate limits. Lakeview Parkway (SH 66) serves as the dividing line between the two areas. Exhibit 2.1 displays the roadway Service Areas. In the 2016 Roadway Impact Fee Minor Update Service Area 1 remains the same, and Service Area 2 now includes the Bayside area.

The population and employment estimates and projections were all compiled in accordance with the following categories:

Dwelling Units: Number of dwelling units, both single-and multi-family.

Employment:

Square feet of building area based on three (3) different classifications. Each classification has unique trip making characteristics.

<u>Retail</u>: Land use activities which provide for the retail sale of goods that primarily serve households and the location choice is oriented toward the household sector, such as grocery stores and restaurants.

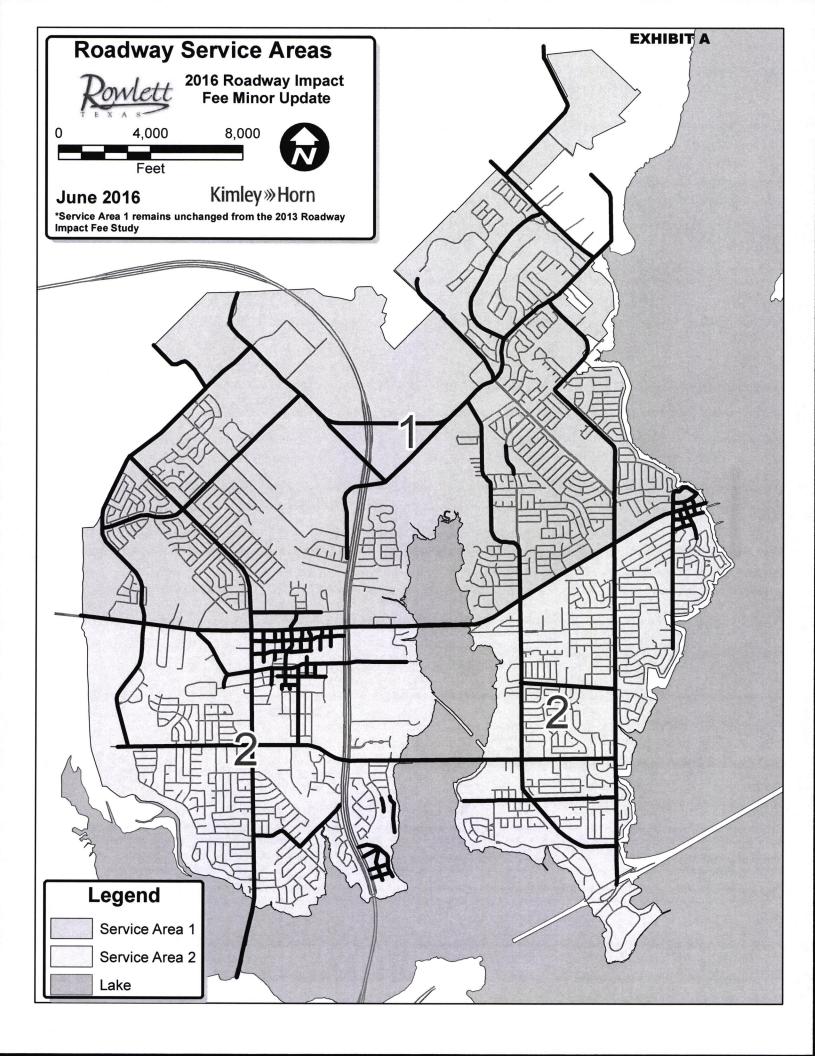
<u>Service</u>: Land use activities which provide personal and professional services such as government and other professional administrative offices.

<u>Basic:</u> Land use activities that produce goods and services such as those that export outside of the local economy, such as manufacturing, construction, transportation, wholesale, trade, warehousing, and other industrial uses.

**Table 2.1** presents the land use assumptions updated from the 2013 study that were utilized in the roadway impact fee development. This table illustrates the growth that is projected for the City of Rowlett from 2013 - 2023.

Table 2.1 Residential and Non-Residential Land Use Assumption Growth Projections (2013-2023)

SERVICE AREA	DWELLING UNITS	BASIC (ft²)	SERVICE (ft²)	RETAIL (ft²)
1	1,013	422,500	270,000	474,300
2	3,157	227,500	1,310,000	1,080,700







#### B. CAPITAL IMPROVEMENT PLAN

The City has identified the City-funded transportation projects needed to accommodate the projected growth within the City. The CIP for Roadway Impact Fees is made up of:

- Recently completed projects with excess capacity available to serve new growth;
- Projects currently under construction; and
- Remaining projects needed to complete the City's Master Thoroughfare Plan.

The CIP includes arterial and collector facilities. All of the arterial and collector facilities are part of the currently adopted Master Thoroughfare Plan or included in one of the Council adopted specific area roadway plans (Downtown, Healthy Living, or Signature Gateway).

The CIP for Roadway Impact Fees that is proposed for the Roadway Impact Fee Minor Update is listed in Tables 2.2 and 2.3, and mapped in Exhibit 2.2 (Service Area 1) and Exhibit 2.3 (Service Area 2). The CIP for Service Area 1 was not evaluated as part of this update. Service Area 2 was updated from minor changes. The tables show the length of each project as well as the facility's classification. The CIP was developed in conjunction with input from City of Rowlett staff and represents those projects that will be needed to accommodate the growth projected from the land use assumptions.

The various roadway classifications describe the purpose and function of each roadway. These roadway classifications are based on the existing City of Rowlett Master Thoroughfare Plan. There are seven primary classifications that were used in the 2016 Rowlett Roadway Impact Fee Minor Update. These classifications are:

- Major Thoroughfare 6 Lanes Divided (A+);
- Major Thoroughfare 6 Lanes Divided (A);
- Secondary Thoroughfare 4 Lanes Divided (B+);
- Secondary Thoroughfare 4 Lanes Undivided (B); and
- Collector Thoroughfare 2 Lanes Undivided (C).

The specific area roadway plans were identified as SG (Signature Gateway), D (Downtown), or HL (Healthy Living). Each of the classifications have different vehicular capacities assigned to them (see Table 2.4) based on their roadway characteristics. Major/secondary arterial thoroughfares are designed to move more traffic and provide a larger amount of capacity. Arterials provide for travel between neighborhoods and commercial areas or serve as routes for thru-traffic from adjacent cities. A collector's primary function is to bring traffic from local streets to arterial facilities. Collectors are intended to move less traffic and are designed with lower vehicular capacity than arterial facilities.

#### **EXHIBIT A**

# Kimley ≫ Horn



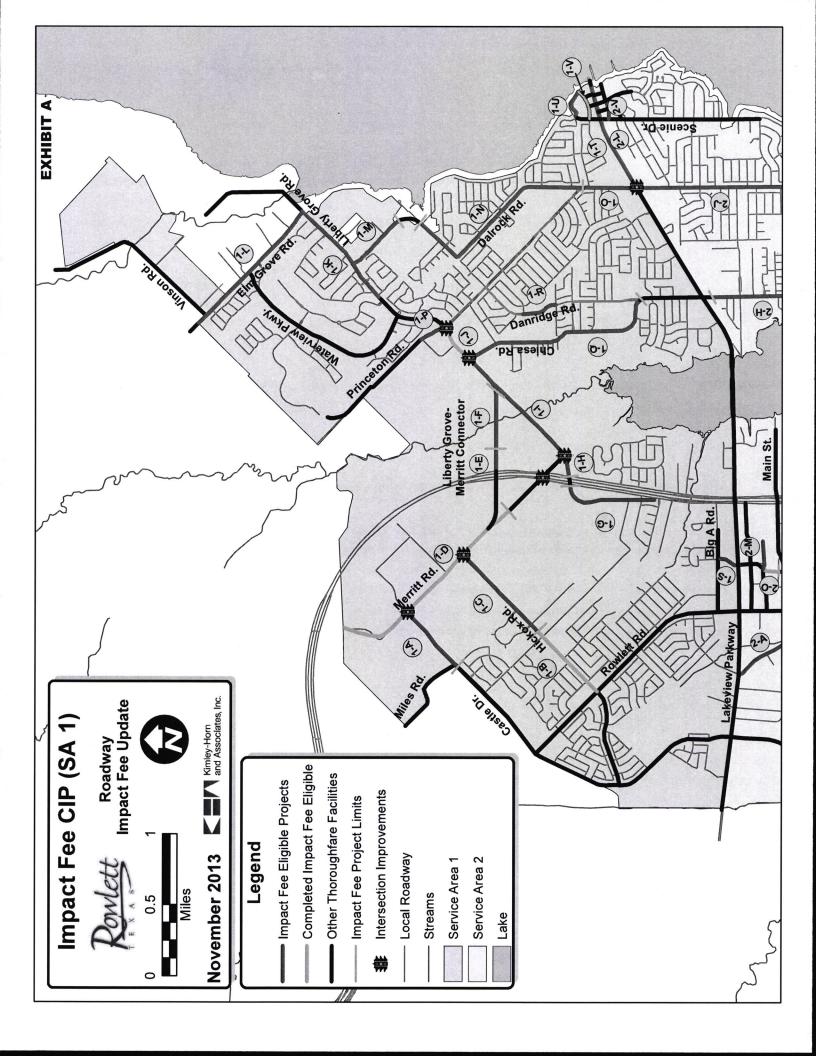
## Table 2.2 10-Year Roadway Impact Fee Capital Improvement Plan for Service Area 1

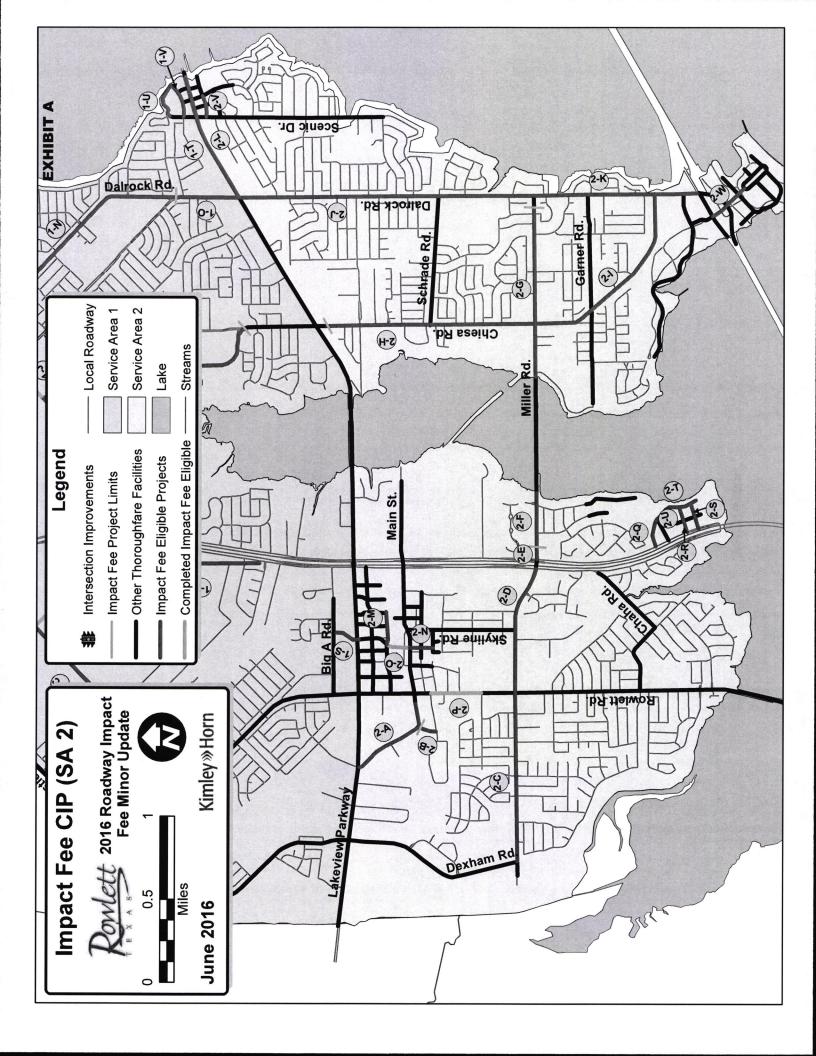
Service Area	Area Proj. # Class F		Roadway	Limits	Length (mi)	% In Service Area
	1-A	В	Castle Dr.	Miles Rd. to Merritt Rd.	0.51	100%
	1-B	B, B+	Hickox Rd. (1)	Rowlett Rd. to 235' NE. of Toler Rd.	0.59	100%
	1-C	B+	Hickox Rd. (2)	235' NE. of Toler Rd. to Merritt Rd.	0.76	100%
	1-D	В	Merritt Rd.	N. City Limit to 860' SE. of	1.52	100%
	1-E	A	Liberty Grove-Merritt Connector (1)	PGBT NBFR to 805' E. of PGBT NBFR	0.15	100%
	1-F	В	Liberty Grove-Merritt Connector (2)	805' E. of PGBT NBFR to Liberty Grove Rd.	0.49	100%
	1-G	В	Liberty Grove Rd. (1)	Rosebud Dr. to PGBT SBFR	0.67	100%
	1-H	В	Liberty Grove Rd. (2)	PGBT NBFR to Merritt Rd.	0.16	100%
	1-I	В	Liberty Grove Rd. (3)	Merritt Rd. to Chiesa Rd.	0.95	100%
	1-J	В	Liberty Grove Rd. (4)	Chiesa Rd. to Princeton Rd.	0.28	100%
	1-K	В	Liberty Grove Rd. (5)	Broadmoor Ln. to Elm Grove Rd.	0.84	100%
_	1-L	В	Elm Grove Rd.	N. City Limit to Liberty Grove Rd.	1.08	100%
	1-M	B+	Dalrock Rd. (1)	Liberty Grove Rd. to 770' SE. of Lake North Rd.	0.46	100%
	1-N	B+	Dalrock Rd. (2)	105' NE. of Pecan Ln. to Princeton Rd.	1.45	100%
SA	1-0	A (1/3)	Dalrock Rd. (3)	Princeton Rd. to Lakeview Pkwy.	0.36	100%
91	1-P	C	Princeton Rd.	Existing Princeton Rd. to Liberty Grove Rd.	0.19	100%
	1-Q	В	Chiesa Rd. (1)	Liberty Grove Rd. to Danridge Rd.	1.40	100%
	1-R	C	Danridge Rd.	Maplewood Dr. to Traveler's Crossing	0.25	100%
	1-S	С	Freedom Ln.	Big A. Rd. to Lakeview Pkwy.	0.15	100%
	1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	50%
	1-U	HL-C3	HL Collector #1	HL Collector #1	0.22	100%
	1-V	HL-C2	HL Collector #2	HL Collector #2	0.22	100%
	1			Dalrock Rd. at Lakeview Pkwy.		50%
	2			Liberty Grove Rd. at Chiesa Rd.		100%
	3			Princeton Rd. at Liberty Grove Rd.		100%
	4			Merritt Rd. at Hickox Rd.		100%
	5			Merritt Rd. at Castle Dr.		100%
	6			Merritt Rd. at Liberty Grove Rd.		100%
	7	*		Merritt Rd. at PGBT		100%



## Table 2.3 10-Year Roadway Impact Fee Capital Improvement Plan for Service Area 2

Service Area Proj. # Class		Class	Roadway	Limits		% In Service Area
	2-A	В	Main St.	Lakeview Pkwy. to 310' W. of Rowlett Rd.	0.58	100%
	2-B	В	Future Main-Century Connection	Main St. to Century Dr.	0.11	100%
	2-C	A (1/3)	Miller Rd. (1)	Dexham Rd. to Rowlett Rd.	1.02	100%
	2-D	A (1/3)	Miller Rd. (2)	Rowlett Rd. to PGBT SBFR	0.77	100%
	2-E	A (1/3)	Miller Rd. (3)	PGBT NBFR to 360' E. of PGBT NBFR	0.07	100%
	2-F	A	Miller Rd. (4)	360' E. of PGBT NBFR to Lake Ray Hubbard Bridge	0.33	100%
	2-G	A	Miller Rd. (5)	Lake Ray Hubbard Bridge to 372' W. of Dalrock Rd.	1.02	100%
	2-H	B+	Chiesa Rd. (2)	360' S. of Lakeview Pkwy. to Miller Rd.	1.25	100%
	2-I	B+	Chiesa Rd. (3)	Miller Rd. to Dalrock Rd.	1.21	100%
	2-J	A (1/3)	Dalrock Rd. (4)	Lakeview Pkwy. to Miller Rd.	1.79	100%
	2-K	A (1/3)	Dalrock Rd. (5)	Miller Rd. to IH-30 WBFR	0.98	100%
	1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	50%
7	2-M	D-C	Melcer Dr.	Melcer Dr. Extension	0.20	100%
SA	2-N	D-C	Martin Dr. (1)	Main St. to South End	0.14	100%
	2-O	C	Martin Dr. (2)	Melcer Dr. to Main St.	0.11	100%
	2-P	A (1/3)	Rowlett Rd.	Century Dr. to Kyle Rd.	0.31	100%
	2-Q	SG-C5	SG Collector #1	SG Collector #1	0.28	100%
	2-R	SG-C5	SG Collector #2	SG Collector #2	0.07	100%
	2-S	SG-C5	SG Collector #3	SG Collector #3	0.16	100%
	2-T	SG-C4	SG Collector #4	SG Collector #4	0.17	100%
	2-U	SG-A+	SG Major Thoroughfare	SG Major Thoroughfare	0.09	100%
	2-V	HL-C1	HL Collector #3	HL Collector #3	0.13	100%
	2-W	BS-A	Bayside Arterial	IH-30 WBFR to Bayside Boulevard	0.15	100%
	1		Intersection Improvement	Dalrock Rd. at Lakeview Pkwy.	0.20	50%
	2	***************************************	Intersection Improvement	Dalrock Rd. at Chiesa Rd.		100%
	3		Signal Installation	Dexham Rd. at Miller Rd.		100%







## 2.4 METHODOLOGY FOR ROADWAY IMPACT FEES

#### A. SERVICE AREA

The service areas used in the 2016 Roadway Impact Fee Minor Update are shown in the previously referenced Exhibit 2.1. Chapter 395 of the Texas Local Government Code specifies that "the service areas are limited to an area within the corporate boundaries of the political subdivision and shall not exceed six (6) miles." Based on the guidance in Chapter 395 and examination of the City of Rowlett, two roadway service areas were deemed appropriate. These service areas cover the entire corporate boundary of the City of Rowlett. Service Area 1 is located north of Lakeview Parkway (SH 66) and Service Area 2 is located south of Lakeview Parkway (SH 66). Both service areas are approximately five (5) miles in diameter. In the 2016 Roadway Impact Fee Minor Update Service Area 1 remains the same, and Service Area 2 now includes the Bayside area.

## **B. SERVICE UNITS**

The "service unit" is a measure of consumption or use of the roadway facilities by new development. In other words, it is the measure of supply and demand for roads in the City. For transportation purposes, the service unit is defined as a vehicle-mile. On the supply side, this is a lane-mile of an arterial street. On the demand side, this is a vehicle-trip of one-mile in length. The application of this unit as an estimate of either supply or demand is based on travel during the afternoon peak hour of traffic. This time period is commonly used as the basis for transportation planning and the estimation of trips created by new development.

Another aspect of the service unit is the service volume that is provided (supplied) by a lane-mile of roadway facility. This number, also referred to as capacity, is a function of the facility type, facility configuration, number of lanes, and level of service. The hourly service volumes used in the 2016 Roadway Impact Fee Minor Update are based upon Thoroughfare Capacity Criteria published by the North Central Texas Council of Governments (NCTCOG), but have been adjusted to the City of Rowlett's Master Thoroughfare Plan. **Tables 2.4** and **2.5** show the service volumes utilized in this report.

Table 2.4 Level of Use for Proposed Facilities (used in Appendix B – CIP Service Units of Supply)

Roadway Type (MTP Classifications)	Median Configuration	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
Major Thoroughfare (A+)	Divided	700
Major Thoroughfare (A)	Divided	700
Secondary Thoroughfare (B+)	Divided	700
Secondary Thoroughfare (B)	Undivided	625
Collector Thoroughfare (C)	Undivided	500
Signature Gateway, Healthy Living, and Downtown Roadways	Undivided	425



# Table 2.5 Level of Use for Existing Facilities (used in Appendix C – Existing Roadway Facilities Inventory)

Roadway Type	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
2U-A	Two lane undivided – Rural cross-section	450
2U	Two lane undivided	500
3U	Three lane undivided (TWLTL)	550
<b>4</b> U	Four lane undivided	500
4D	Four lane divided	650
6D	Six lane divided	700

### C. COST PER SERVICE UNIT

A fundamental step in the impact fee process is to establish the cost for each service unit. In the case of the roadway impact fee, this is the cost for each vehicle-mile of travel. This cost per service unit is the cost to construct a roadway (lane-mile) needed to accommodate a vehicle-mile of travel at a level of service corresponding to the City's standards. The cost per service unit is calculated for each service area based on a specific list of projects within that service area.

The second component of the cost per service unit is the number of service units in each service area. This number is the measure of the growth in transportation demand that is projected to occur in the ten-year period. Chapter 395 requires that Impact Fees be assessed only to pay for growth projected to occur in the city limits within the next ten years, a concept that will be covered in a later section of this report (see Section 2.3.E). As noted earlier, the units of demand are vehicle-miles of travel.

#### D. COST OF THE CIP

The costs that may be included in the cost per service unit are all of the implementation costs for the 2016 Roadway Impact Fee Minor Update, as well as project costs for thoroughfare system elements within the Capital Improvement Plan. Chapter 395 of the Texas Local Government Code specifies that the allowable costs are "...including and limited to the:

- 1. Construction contract price;
- 2. Surveying and engineering fees;
- Land acquisition costs, including land purchases, court awards and costs, attorney's fees, and expert witness fees; and
- 4. Fees actually paid or contracted to be paid to an independent qualified engineer or financial consultant preparing or updating the Capital Improvement Plan who is not an employee of the political subdivision."

The costing methodology was not updated from the 2013 Roadway Impact Fee Study since this was a minor update. The CIP for Service Area 1 remained the same. The engineer's opinion of the probable costs of the projects in the CIP is based, in part, on the calculation of a unit cost of construction. This means that a cost per linear foot of roadway is calculated based on an average price for the various components of roadway construction. This allows the probable cost to be



determined by the type of facility being constructed, the number of lanes, and the length of the project. The costs for location-specific items such as bridges, highway ramps, drainage structures, and any other special components are added to each project as appropriate. In addition, based upon discussions with City of Rowlett staff, State, County, and developer driven projects in which the City has contributed a portion of the total project cost have been included in the CIP as lump sum costs.

A typical roadway project consists of a number of costs, including the following: construction, design engineering, survey, and right-of way acquisition. While the construction cost component of a project may actually consist of approximately 100 various pay items, a simplified approach was used for developing the conceptual level project costs. Each new project's construction cost was divided into two cost components: roadway construction cost and major construction component allowances. The roadway construction components consist of the following pay items: (1) street excavation, (2) lime stabilization, (3) concrete pavement, (4) topsoil, (5) concrete sidewalks, and (6) turn lanes and median openings.

Based on the paving construction cost subtotal, a percentage of this total is calculated to allot for major construction component allowances. These allowances include preparation of ROW, traffic control, pavement markings, roadway drainage, illumination, special drainage structures, minor utility relocations, turf/erosion control, and basic landscaping. These allowance percentages are also based on historical data. The paving and major construction component allowance subtotal is given a ten percent (10%) contingency to determine the construction cost total. To determine the total Impact Fee Project Cost, a percentage of the construction cost total is added for engineering, surveying, testing, and mobilization. ROW acquisition costs are included in the cost on a percentage basis.

The construction costs are variable based on the proposed Master Thoroughfare Plan classification of the roadway.

**Tables 2.6** and **2.7** list the CIP projects for the City of Rowlett with conceptual level project cost projections. Detailed cost projections and the methodology used for each individual project can be seen in Appendix A, Conceptual Level Project Cost Projections. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are potentially recoverable through impact fees. Actual costs of construction are likely to change with time and are dependent on market and economic conditions that cannot be precisely predicted at this time.

This CIP establishes the list of projects for which impact fees may be utilized. Essentially, it establishes a list of projects for which an impact fee funding program can be established. This is different from a City's construction CIP, which provides a broad list of capital projects for which the City is committed to building. The cost projections utilized in this study should not be utilized for the City's building program or construction CIP. Included in the Roadway Impact Fee CIP was the cost of the 2013 Roadway Impact Fee Study which was \$22,500 per Service Area. The 2016 Roadway Impact Fee Minor Update was included for Service Area 2 as \$9,500.



Table 2.6

10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections - Service Area 1

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	1-A	В	Castle Dr.	Miles Rd. to Merritt Rd.	0.51	100%	\$ 2,185,000	\$ 2,185,000
	1-B	B, B+	Hickox Rd. (1)	Rowlett Rd. to 235' NE. of Toler Rd.	0.59	100%	\$ 2,737,012	\$ 2,737,012
	1-C	B+	Hickox Rd. (2)	235' NE. of Toler Rd. to Merritt Rd.	0.76	100%	\$ 3,531,000	\$ 3,531,000
	1-D	В	Merritt Rd.	N. City Limit to 860' SE. of Future Liberty Grove-Merritt Connector	1.52	100%	\$ 2,926,087	\$ 2,926,087
	1-E	A	perty Grove-Merritt Connector	PGBT NBFR to 805' E. of PGBT NBFR	0.15	100%	\$ 1,204,000	\$ 1,204,000
	1-F	В	perty Grove-Merritt Connector	805' E. of PGBT NBFR to Liberty Grove Rd.	0.49	100%	\$ 3,106,000	\$ 3,106,000
	1-G	В	Liberty Grove Rd. (1)	Rosebud Dr. to PGBT SBFR	0.67	100%	\$ 2,908,000	\$ 2,908,000
	1-H	В	Liberty Grove Rd. (2)	PGBT NBFR to Merritt Rd.	0.16	100%	\$ 671,000	\$ 671,000
	1-I	В	Liberty Grove Rd. (3)	Merritt Rd. to Chiesa Rd.	0.95	100%	\$ 4,852,000	\$ 4,852,000
	1-J	В	Liberty Grove Rd. (4)	Chiesa Rd. to Princeton Rd.	0.28	100%	\$ 365,293	\$ 365,293
	1-K	В	Liberty Grove Rd. (5)	Broadmoor Ln. to Elm Grove Rd.	0.84	100%	\$ 3,867,000	\$ 3,867,000
	1-L	В	Elm Grove Rd.	N. City Limit to Liberty Grove Rd.	1.08	100%	\$ 4,655,000	\$ 4,655,000
	1-M	B+	Dalrock Rd. (1)	Liberty Grove Rd. to 770' SE. of Lake North Rd.	0.46	100%	\$ 2,505,000	\$ 2,505,000
	1-N	B+	Dalrock Rd. (2)	105' NE. of Pecan Ln. to Princeton Rd.	1.45	100%	\$ 7,131,000	\$ 7,131,000
	1-0	A (1/3)	Dalrock Rd. (3)	Princeton Rd. to Lakeview Pkwy.	0.36	100%	\$ 954,000	\$ 954,000
SA	1-P	С	Princeton Rd.	Existing Princeton Rd. to Liberty Grove Rd.	0.19	100%	\$ 675,000	\$ 675,000
•2	1-Q	В	Chiesa Rd. (1)	Liberty Grove Rd. to Danridge Rd.	1.40	100%	\$ 6,044,000	\$ 6,044,000
	1-R	С	Danridge Rd.	Maplewood Dr. to Traveler's Crossing	0.25	100%	\$ 902,000	\$ 902,000
	1-S	С	Freedom Ln.	Big A. Rd. to Lakeview Pkwy.	0.15	100%	\$ 533,000	\$ 533,000
	1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	50%	\$ 2,108,000	\$ 1,054,000
	1-U	HL-C3	HL Collector #1	HL Collector #1	0.22	100%	\$ 830,000	\$ 830,000
	1-V	HL-C2	HL Collector #2	HL Collector #2	0.22	100%	\$ 947,000	\$ 947,000
	1	0	0	Dalrock Rd. at Lakeview Pkwy.	0.00	50%	\$ 1,250,000	\$ 625,000
	2	0	0	Liberty Grove Rd. at Chiesa Rd.	0.00	100%	\$ 250,000	\$ 250,000
	3	0	0	Princeton Rd. at Liberty Grove Rd.	0.00	100%	\$ 250,000	\$ 250,000
	4	0	0	Merritt Rd. at Hickox Rd.	0.00	100%	\$ 250,000	\$ 250,000
	5	0	0	Merritt Rd. at Castle Dr.	0.00	100%	\$ 250,000	\$ 250,000
	6	0	0	Merritt Rd. at Liberty Grove Rd.	0.00	100%	\$ 450,000	\$ 450,000
	7	0	0	Merritt Rd. at PGBT	0.00	100%	\$ 250,000	\$ 250,000
				, 11	Service A	rea Projec	t Cost Subtotal	\$ 56,907,392
								\$ 22,500
	Total Cost in SERVICE AREA 1 S							

#### Notes:

- a. The planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.
- b. The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.



Table 2.7 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections - Service Area 2

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	2-A	В	Main St.	Lakeview Pkwy. to 310' W. of Rowlett Rd.	0.58	100%	\$ 5,181,000	\$ 5,181,000
	2-B	В	future Main-Century Connectio	Main St. to Century Dr.	0.11	100%	\$ 942,000	\$ 942,000
	2-C	A (1/3)	Miller Rd. (1)	Dexham Rd. to Rowlett Rd.	1.02	100%	\$ 5,128,000	\$ 5,128,000
	2-D	A (1/3)	Miller Rd. (2)	Rowlett Rd. to PGBT SBFR	0.77	100%	\$ 2,433,000	\$ 2,433,000
	2-E	A (1/3)	Miller Rd. (3)	PGBT NBFR to 360' E. of PGBT NBFR	0.07	100%	\$ 181,000	\$ 181,000
	2-F	Α	Miller Rd. (4)	360' E. of PGBT NBFR to Lake Ray Hubbard Bridge	0.33	100%	\$ 1,540,000	\$ 1,540,000
	2-G	A	Miller Rd. (5)	Lake Ray Hubbard Bridge to 372' W. of Dalrock Rd.	1.02	100%	\$ 5,115,000	\$ 5,115,000
	2-H	B+	Chiesa Rd. (2)	360' S. of Lakeview Pkwy. to Miller Rd.	1.25	100%	\$ 6,194,000	\$ 6,194,000
	2-I	B+	Chiesa Rd. (3)	Miller Rd. to Dalrock Rd.	1.21	100%	\$ 5,878,000	\$ 5,878,000
	2-J	A (1/3)	Dalrock Rd. (4)	Lakeview Pkwy. to Miller Rd.	1.79	100%	\$ 4,707,000	\$ 4,707,000
7.	2-K	A (1/3)	Dalrock Rd. (5)	Miller Rd. to IH-30 WBFR	0.98	100%	\$ 2,577,000	\$ 2,577,000
	1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	50%	\$ 2,108,000	\$ 1,054,000
	2-M	D-C	Meker Dr.	Melcer Dr. Extension	0.20	100%	\$ 741,000	\$ 741,000
	2-N	D-C	Martin Dr. (1)	Main St. to South End	0.14	100%	\$ 508,000	\$ 508,000
SA	2-O	С	Martin Dr. (2)	Melcer Dr. to Main St.	0.11	100%	\$ 1,294,932	\$ 1,294,932
	2-P	A (1/3)	Rowlett Rd.	Century Dr. to Kyle Rd.	0.31	100%	\$ 3,792,336	\$ 3,792,336
	2-Q	SG-C5	SG Collector #1	SG Collector #1	0.28	100%	\$ 1,184,000	\$ 1,184,000
	2-R	SG-C5	SG Collector #2	SG Collector #2	0.07	100%	\$ 310,000	\$ 310,000
	2-S	SG-C5	SG Collector #3	SG Collector #3	0.16	100%	\$ 698,000	\$ 698,000
	2-T	SG-C4	SG Collector #4	SG Collector #4	0.17	100%	\$ 633,000	\$ 633,000
	2-U	SG-A+	SG Major Thoroughfare	SG Major Thoroughfare	0.09	100%	\$ 450,000	\$ 450,000
	2-V	HL-C1	HL Collector #3	HL Collector #3	0.13	100%	\$ 590,000	\$ 590,000
	2-W	BS-A	Bayside Arterial	IH-30 WBFR to Bayside Boulevard	0.26	100%	\$ 3,747,000	\$ 3,747,000
	1		Intersection Improvement	Dalrock Rd. at Lakeview Pkwy.		50%	\$ 1,250,000	\$ 625,000
	2		Intersection Improvement	Dalrock Rd. at Chiesa Rd.		100%	\$ 750,000	\$ 750,000
	3		Signal Installation	Dexham Rd. at Miller Rd.		100%	\$ 250,000	\$ 250,000
								\$ 56,503,268
			2013 Ro	adway Impact Fee Study and 2016 Roadway Impact Fee I	Minor Upda	te Cost Po	er Service Area	\$ 32,000
				Tot	al Cost ir	<b>SERVI</b>	CE AREA 2	\$ 56,535,268

#### Notes:

- The planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.
- The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

## E. SERVICE UNIT CALCULATION

The basic service unit for the computation of the City of Rowlett's roadway impact fees is the vehicle-mile of travel during the afternoon peak hour. To determine the cost per service unit, it is necessary to project the growth in vehicle-miles of travel for the service area for the ten-year study period.

The growth in vehicle-miles from 2013 to 2023 is based upon projected changes in residential and non-residential growth for the period. In order to determine this growth, baseline estimates of population, basic square feet, service square feet, and retail square feet for 2013 were made along with projections for each of these demographic statistics through 2023. The Land Use Assumptions (see Table 2.1) details the growth estimates used for the impact fee determination.

The residential and non-residential statistics in the Land Use Assumptions provide the "independent variables" that are used to calculate the existing (2013) and projected (2023) transportation service units used to establish the roadway impact fee maximum rates within each service area. The roadway demand service units (vehicle-miles) for each service area are the sum of the vehicle-miles "generated" by each category of land use in the service area.





For the purpose of impact fees, all developed and developable land is categorized as either residential or non-residential. For residential land uses, the existing and projected population is converted to dwelling units. The number of dwelling units in each service area is multiplied by a transportation demand factor to compute the vehicle-miles of travel that occur during the afternoon peak hour. This factor computes the average amount of demand caused by the residential land uses in the service area. The transportation demand factor is discussed in more detail below.

For non-residential land uses, the process is similar. The Land Use Assumptions provide the existing and projected amount of building square footages for three (3) categories of nonresidential land uses - basic, service, and retail. These categories correspond to an aggregation of other specific land use categories based on the North American Industrial Classification System (NAICS).

Building square footage is the most common independent variable for the estimation of nonresidential trips in the Institute of Transportation Engineers' (ITE), Trip Generation Manual, 9th Edition. This independent variable is more appropriate than the number of employees because building square footage is tied more closely to trip generation and is known at the time of application for any development or development modification that would require the assessment of an impact fee.

The existing and projected land use assumptions for the dwelling units and the square footage of basic, service, and retail land uses provide the basis for the projected increase in vehicle-miles of travel. As noted earlier, a transportation demand factor is applied to these values and then summed to calculate the total peak-hour vehicle-miles of demand for each service area.

The transportation demand factors are aggregate rates derived from two sources – the ITE, Trip Generation Manual, 9th Edition, and the regional Origin-Destination Travel Survey performed by the NCTCOG and the National Household Travel Survey (NHTS). The ITE, Trip Generation Manual, 9th Edition, provides the number of trips that are produced or attracted to the land use for each dwelling unit, square foot of building, or other corresponding unit. For the retail category of land uses, the rate is adjusted to account for the fact that a percentage of retail trips are made by people who would otherwise be traveling past that particular establishment anyway, such as a trip between work and home. These trips are called pass-by trips, and since the travel demand is accounted for in the land use calculations relative to the primary trip, it is necessary to discount the retail rate to avoid double counting trips.

The next component of the transportation demand factor accounts for the length of each trip. The average trip length for each category is based on the region-wide travel characteristics survey conducted by the NCTCOG and the NHTS.



The computation of the transportation demand factor is detailed in the following equation:

$$TDF = T * (1 - P_b) * L_{\text{max}}$$
where... $L_{\text{max}} = \min(L * OD \text{ or } SA_L)$ 

Variables:

TDF = Transportation Demand Factor;

T = Trip Rate (peak hour trips / unit);

P<sub>b</sub> = Pass-By Discount (% of trips);

L<sub>max</sub> = Maximum Trip Length (miles);

L = Average Trip Length (miles);

OD = Origin-Destination Reduction (50%); and

SA<sub>L</sub> = Max Service Area Trip Length (see **Table 2.8**).

For land uses which are characterized by longer average trip lengths (primarily residential uses), the maximum trip length has been limited to four (4) miles based on the maximum trip length within each service area. Chapter 395 of the Texas Local Government Code allows for a service area of six (6) miles; however the service area within the City of Rowlett is approximated to be a five (5) mile distance.

The adjustment made to the average trip length (L) statistic in the computation of the maximum trip length ( $L_{max}$ ) is the origin-destination reduction (OD). This adjustment is made because the roadway impact fee is charged to both the origin and destination end of the trip. For example, the impact fee methodology will account for a trip from home to work within the City of Rowlett to both residential and non-residential land uses. To avoid counting these trips as both residential and non-residential trips, a 50% origin-destination (OD) reduction factor is applied. Therefore, only half of the trip length is assessed to each land use.

**Table 2.9** shows the derivation of the *Transportation Demand Factor* for the residential land uses and the three (3) non-residential land uses. The values utilized for all variables shown in the *Transportation Demand Factor* equation are also shown in the table.



**Table 2.8 Transportation Demand Factor Calculations** 

Variable	Residential	Basic (General Light Industrial)	Service (General Office)	Retail (Shopping Center)
T	1.00	0.97	1.49	3.71
P <sub>b</sub>	0%	0%	0%	34%
T (with P <sub>b</sub> )	1.00	0.97	1.49	2.45
L (miles)	17.21	10.02	10.92	6.43
$SA_L$	5.00	5.00	5.00	5.00
L <sub>max</sub> * (miles)	5.00	5.00	5.00	3.22
TDF	5.00	4.85	7.45	7.89

<sup>\*</sup>  $L_{max}$  is less than 4 miles for retail land uses; therefore this lower trip length is used for calculating the TDF for retail land uses

The application of the demographic projections and the *transportation demand factors* are presented in the 10-Year Growth Projections in **Table 2.9**. This table shows the total vehicle-miles by service area for the years 2013-2023. These estimates and projections lead to the Vehicle Miles of Travel for 2013-2023.



# Table 2.9 10-Year Growth Projections

2013 - 2023 Growth Projections<sup>1</sup>

SEBVICE	RESIDENTIAL VEH	IAL VEHICLE	ICLE-MILES	SC	SQUARE FEET⁴		TRANS.	TRANS. DEMAND FACTOR <sup>5</sup>		NON-RE	NON-RESIDENTIAL VEHICLE-MILES® TOTAL	VEHICLE	-MILES	TOTAL
AREA	DWELLING	Trip Rate	ate VEHICLE	JISVA	SEBMOE	DETAIL	90100	7-00:00-0	8	01040	200,020	IIV LIGHT	10.10.1	VEHICLE
	UNITS	TDF <sup>2</sup>	MILES	SPECIAL	SERVICE	7E   7E	BASIC	BASIC SERVICE RELAIL	KE AL	DESIC	BASIC SERVICE RELAIL TOTAL	ZE I AL	2	MILES <sup>10</sup>
		1.00					26.0	1.49	3.71					
-	1,013	2	5,064	422,500	270,000	474,300	10.7	7.16	1	2,049	2,012	3,742	7,803	12,867
2	3,157	3.00	15,786	227,500	1,310,000	1,080,700	6.4	7.45	68.7	•	9,760	8,527	8,527 19,390	35,176
Totals	4.170		20.850	650.000	1.580.000	580 000 1 555 000				3 152	11 772 12 269 27 193 48 043	12 269	27 193	48 043

VEHICLE-MILES OF INCREASE (2013 - 2023)

VEH-MILES	12,867	35.176
SERVICE AREA	1	2

From Section 2.3.A: Land Use Assumptions

Trip generation rate and Transportation Demand Factors from LUVMET for each land use

Calculated by multiplying TDF by the number of dwelling units

<sup>2</sup> Transportation Demand Factor for each Service Area (from LUM/ET) using Single Family Detached Housing land use and trip generation rate

<sup>4</sup> From Section 2.3.A: Land Use Assumptions

<sup>6</sup> 'Basic' corresponds to General Light Industrial land use and *trip generation rate* <sup>7</sup> 'Service' corresponds to General Office land use and *trip generation rate* 

8 'Retail' corresponds to Shopping Center land use and trip generation rate

<sup>9</sup> Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use

10 Residential plus non-residential vehicle-mile totals for each Service Area



#### 2.4 IMPACT FEE CALCULATION

## A. MAXIMUM ASSESSABLE ROADWAY IMPACT FEE PER SERVICE UNIT

This section presents the maximum assessable roadway impact fee rate calculated for each service area. The maximum assessable roadway impact fee is the sum of the eligible Impact Fee CIP costs for the service area divided by the growth in travel attributable to new development projected to occur within the 10-year period. A majority of the components of this calculation have been described and presented in previous sections of this report. The purpose of this section is to document the computation for each service area and to demonstrate that the guidelines provided by Chapter 395 of the Texas Local Government Code have been addressed. Table 2.10 illustrates the computation of the maximum assessable impact fee computed for each service area. Each row in the table is numbered to simplify explanation of the calculation.

Line	Title	Description
	Total Vehicle-Miles of	The total number of vehicle-miles added to the service area based on
1	Capacity Added by the	the capacity, length, and number of lanes in each project. (from
	CIP	Appendix B – CIP Service Units of Supply)

Each project identified in the Roadway Impact Fee CIP will add a certain amount of capacity to the City's roadway network based on its length and classification. This line displays the total amount added within the service area.

2	Total Vehicle-Miles of Existing Demand	A measure of the amount of traffic currently using the roadway facilities upon which capacity is being added. (from <b>Appendix B</b> – CIP Service Units of Supply)
---	---	--

A number of facilities identified in the Roadway Impact Fee CIP have traffic currently utilizing a portion of their existing capacity. This line displays the total amount of capacity along these facilities currently being used by existing traffic.

3	Total Vehicle-Miles of Existing Deficiencies	Number of vehicle-miles of travel that are not accommodated by the existing roadway system. (from <b>Appendix C</b> – Existing Roadway Facilities Inventory)
---	---	--

In order to ensure that existing deficiencies on the City's roadway network are not recoverable through impact fees, this line is based on the entire roadway network within the service area. Any roadway within the service area that is deficient - even those not identified on the Roadway Impact Fee CIP - will have these additional trips removed from the calculation.

4	Net Amount of Vehicle- Miles of Capacity Added	A measurement of the amount of vehicle-miles added by the CIP that will not be utilized by existing demand. (Line 1 – Line 2 – Line 3)
5	Total Cost of the CIP within the Service Area	The total cost of the projects within the service area (from <b>Table 2.6/Table 2.7</b> - 10-Year Roadway Capital Improvement Plan with Conceptual Level Cost Projections)

This line simply identifies the total cost of all of the projects identified in the service area.



6	Cost of Net Capacity Supplied	The total CIP cost (Line 5) prorated by the ratio of Net Capacity Added (Line 4) to Total Capacity Added (Line 1). [(Line 4 / Line 1) * (Line 5)]
---	----------------------------------	---

Using the ratio of vehicle-miles added by the Roadway Impact Fee CIP available to serve future growth to the total vehicle-miles added, the total cost of the Impact Fee CIP is reduced to the amount available for future growth (i.e., excluding existing usage and deficiencies).

7	Cost to Meet Existing	The difference between the Total Cost of the CIP (Line 5) and the
_ ′	Needs and Usage	Cost of the Net Capacity supplied (Line 6). (Line 5 – Line 6)

This line is provided for information purposes only – it is to present the portion of the total cost of the Roadway Impact Fee CIP that is required to meet existing demand.

8	Total Vehicle-Miles of New Demand over Ten Years	Based upon the growth projection provided in the Land Use Assumptions (see Section 2.3.A), an estimate of the number of new vehicle-miles within the service area over the next ten years. (from Table 2.9)
---	--	---

This line presents the amount of growth (in vehicle-miles) projected to occur within each service area over the next ten years.

o	Percent of Capacity Added Attributable to	The result of dividing Total Vehicle-Miles of New Demand ( <b>Line 8</b> ) by the Net Amount of Capacity Added ( <b>Line 4</b> ), limited to 100%
1	New Growth	(Line 10). This calculation is required by Chapter 395 to ensure
10	Chapter 395 Check	capacity added is attributable to new growth.

In order to ensure that the vehicle-miles added by the Roadway Impact Fee CIP do not exceed the amount needed to accommodate growth beyond the ten-year window, a comparison of the two values is performed. If the amount of vehicle-miles added by the Roadway Impact Fee CIP exceeds the growth projected to occur in the next ten years, the Roadway Impact Fee CIP cost is reduced accordingly.

	Cost of Capacity Added	The result of multiplying the Cost of Net Capacity Added (Line 6) by
11	Attributable to New	the Percent of Capacity Added Attributable to New Growth, limited to
	Growth	100% ( <b>Line 10</b> ).

The value of the total Roadway Impact Fee CIP project costs (excluding financial costs) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.



## B. PLAN FOR AWARDING THE ROADWAY IMPACT FEE CREDIT

Chapter 395 of the Texas Local Government Code requires the Capital Improvement Plan for Roadway Impact Fees to contain specific enumeration of a plan for awarding the impact fee credit. Section 395.014 of the Code states:

"(7) A plan for awarding:

- (A) a credit for the portion of ad valorem tax and utility service revenues generated by new service units during the program period that is used for the payment of improvements, including the payment of debt, that are included in the capital improvements plan; or
- (B) In the alternative, a credit equal to 50 percent of the total projected cost of implementing the Roadway Impact Fee Capital Improvement Program..."

The following table summarizes the portions of Table 2.10 that utilize this credit calculation, based on awarding a 50 percent credit.

Line	Title	Description				
12	Credit	A credit equal to 50% of the total projected cost, as per section				
12		395.014 of the Texas Local Government Code.				
	Manimum Assessable	Found by dividing the Recoverable Cost of the CIP attributable to				
13	Maximum Assessable	growth (Line 12) by the Total Vehicle-Miles of New Demand Over				
	Fee Per Service Unit	Ten Years (Line 8). (Line 12 / Line 8)				



Table 2.10 Maximum Assessable Roadway Impact Fee

	SERVICE AREA:	1 (North)	2 (South)		
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE CIP  (FROM ROADWAY IMPACT FEE CIP  SERVICE UNITS OF SUPPLY, APPENDIX B)	33,268	38,061		
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, <b>APPENDIX B</b> )	8,279	14,824		
3	TOTAL VEH-MI OF EXISTING DEFICIENCIES  (FROM EXISTING ROADWAY FACILITIES  INVENTORY, APPENDIX C)	822	1,149		
4	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3)	24,167	22,088		
5	TOTAL COST OF THE CIP WITHIN SERVICE AREA (FROM TABLES 4A and 4B)	\$ 56,929,892	\$ 56,535,268		
6	COST OF NET CAPACITY SUPPLIED (LINE 4 / LINE 1) * (LINE 5)	\$ 41,355,798	\$ 32,809,201		
7	COST TO MEET EXISTING NEEDS AND USAGE (LINE 5 - LINE 6)	\$ 15,574,094	\$ 23,726,067		
8	TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE 6 and Land Use Assumptions)	12,867	35,176		
9	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4)	53.2%	159.2%		
10	IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERW ISE NO CHANGE	53.2%	100.0%		
11	COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 6 * LINE 10)	\$ 22,001,285	\$ 32,809,201		
12	CREDIT (50% OF LINE 11)	\$ 11,000,643	\$ 16,404,601		
13	MAX ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 12 / LINE 8)	\$ 855	\$ 466		



## C. SERVICE UNIT DEMAND PER UNIT OF DEVELOPMENT

The roadway impact fee is determined by multiplying the impact fee rate by the number of service units projected for the proposed development. For this purpose, the City utilizes the Land Use/Vehicle-Mile Equivalency Table (LUVMET), presented in **Table 2.11**. This table lists the predominant land uses that may occur within the City of Rowlett. For each land use, the development unit that defines the development's magnitude with respect to transportation demand is shown. Although every possible use cannot be anticipated, the majority of uses are found in this table. If the exact use is not listed, one similar in trip-making characteristics can serve as a reasonable proxy. The individual land uses are grouped into categories, such as residential, office, commercial, industrial, and institutional.

The trip rates presented for each land use is a fundamental component of the LUVMET. The trip rate is the average number of trips generated during the afternoon peak hour by each land use per development unit. The next column, if applicable to the land use, presents the number of trips to and from certain land uses reduced by pass-by trips, as previously discussed.

The source of the trip generation and pass-by statistics is the ITE Trip Generation Manual, 9th Edition, the latest edition for trip generation data. This manual utilizes trip generation studies for a variety of land uses throughout the United States, and is the standard used by traffic engineers and transportation planners for traffic impact analysis, site design, and transportation planning.

To convert vehicle trips to vehicle-miles, it is necessary to multiply trips by trip length. The adjusted trip length values are based on the Regional Origin-Destination Travel Survey performed by the NCTCOG and the NHTS. The other adjustment to trip length is the 50% origindestination reduction to avoid double counting of trips. At this stage, another important aspect of the state law is applied – the limit on transportation service unit demand. If the adjusted trip length is above the maximum trip length allowed within the service area, the maximum trip length used for calculation is reduced to the corresponding value. This reduction, as discussed previously, limits the maximum trip length to the approximate size of the service areas.

The remaining column in the LUVMET shows the vehicle-miles per development unit. This number is the product of the trip rate and the maximum trip length. This number, previously referred to as the Transportation Demand Factor, is used in the impact fee estimate to compute the number of service units consumed by each land use application. The number of service units is multiplied by the impact fee rate (established by City ordinance) in order to determine the impact fee for a development.



Table 2.11 Land Use / Vehicle-Mile Equivalency Table (LUVMET)

Table 2.11 Land Use / Vehicle-Mile Equivalency Table (LUVMET)											
Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass- by Rate	Pass-by Source	Trip Rate	NCTCOG Trip Length (mi)	Adj. For O-D	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
PORT AND TERMINAL											
Truck Terminal INDUSTRIAL	030	Acre	6.55			6.55	10.02	50%	5.01	5.00	32.75
General Light Industrial	110	1,000 SF GFA	0.97			0.97	10.02	50%	5.01	5.00	4.85
General Heavy Industrial	120	1,000 SF GFA	0.68			0.68	10.02	50%	5.01	5.00	3.40
Industrial Park	130	1,000 SF GFA	0.86			0.86	10.02	50%	5.01	5.00	4.30
Warehousing Mini-Warehouse	150	1,000 SF GFA	0.32	-		0.32	10.83	50%	5.42	5.00	1.60
RESIDENTIAL	151	1,000 SF GFA	0.26	-		0.26	10.83	50%	5.42	5.00	1.30
Single-Family Detached Housing	210	Dwelling Unit	1.00			1.00	17.21	50%	8.61	5.00	5.00
Apartment/Multi-family	220	Dwelling Unit	0.62			0.62	17.21	50%	8.61	5.00	3.10
Residential Condominium/Townhome	230	Dwelling Unit	0.52			0.52	17.21	50%	8.61	5.00	2.60
Senior A dult Housing-Detached Senior A dult Housing-Attached	251 252	Dwelling Unit Dwelling Unit	0.27			0.27	17.21	50%	8.61	5.00	1.35
Assisted Living	254	Beds	0.16			0.16	17.21 17.21	50% 50%	8.61 8.61	5.00	0.80 1.10
LODGING	1	Deas	0.22			0.22	17.21	3076	0.01	3.00	1.10
Hotel	310	Room	0.59			0.59	6.43	50%	3.22	3.22	1.90
Motel / Other Lodging Facilities	320	Room	0.47			0.47	6.43	50%	3.22	3.22	1.51
RECREATIONAL Golf Driving Range	422	т	126	ļ		1.05		F00/			
Golf Course	432	Tee Acre	0.30			0.30	6.43	50%	3.22	3.22 3.22	4.03
Recreational Community Center	495	1,000 SF GFA	1.45			1.45	6.43	50%	3.22	3.22	0.97 4.67
Ice Skating Rink	465	1,000 SF GFA	2.36			2.36	6.43	50%	3.22	3.22	7.60
Miniature Golf Course	431	Hole	0.33			0.33	6.43	50%	3.22	3.22	1.06
Multiplex Movie Theater	445	Screens	13.64			13.64	6.43	50%	3.22	3.22	43.92
Racquet / Tennis Club	491	Court	3.35			3.35	6.43	50%	3.22	3.22	10.79
INSTITUTIONAL Church	560	1,000 SF GFA	0.55			0.55	4.20	500/	0.00	2.10	
Day Care Center	565	1,000 SF GFA	12.46	44%	В	0.55 6.98	4.20	50%	2.10	2.10	1.16
Primary/Middle School (1-8)	522	Students	0.16	77/0		0.16	4.20	50%	2.10	2.10	0.34
High School	530	Students	0.13			0.13	4.20	50%	2.10	2.10	0.27
Junior / Community College	540	Students	0.12			0.12	4.20	50%	2.10	2.10	0.25
University / College	550	Students	0.21			0.21	4.20	50%	2.10	2.10	0.44
MEDICAL  Clinic	630	1,000 SF GFA	5.18			6.10	7.6	500/	2.70	2.50	10.50
Hospital	610	Beds	1.31			5.18	7.55 7.55	50%	3.78	3.78	19.58 4.95
Nursing Home	620	Beds	0.22			0.22	7.55	50%	3.78	3.78	0.83
Animal Hospital/Veterinary Clinic	640	1,000 SF GFA	4.72	30%	В	3.30	7.55	50%	3.78	3.78	12.47
OFFICE											
Corporate Headquarters Building General Office Building	714 710	1,000 SF GFA	1.40			1.40	10.92	50%	5.46	5.00	7.00
Medical-Dental Office Building	720	1,000 SF GFA 1,000 SF GFA	1.49 3.46			1.49 3.46	10.92 10.92	50%	5.46 5.46	5.00 5.00	7.45 17.30
Single Tenant Office Building	715	1,000 SF GFA	1.73			1.73	10.92	50%	5.46	5.00	8.65
Office Park	750	1,000 SF GFA	1.48			1.48	10.92	50%	5.46	5.00	7.40
COMMERCIAL											
Automobile Related	0.42										
Automobile Care Center Automobile Parts Sales	942 843	1,000 SF Occ. GLA 1,000 SF GFA	3.38 5.98	40%	В	2.03	6.43	50%	3.22	3.22	6.54
Casoline/Service Station	944	Vehicle Fueling Position	13.87	43%	A A	3.41 8.04	6.43 1.20	50%	3.22 0.60	3.22 0.60	10.98
Gasoline/Service Station w/ Conv Market	945	Vehicle Fueling Position	13.38	56%	В	5.89	1.20	50%	0.60	0.60	3.53
Gasoline/Service Station w/ Conv Market and Car Wash	946	Vehicle Fueling Position	13.94	56%	A	6.13	1.20	50%	0.60	0.60	3.68
New Car Sales	841	1,000 SF GFA	2.59	20%	В	2.07	6.43	50%	3.22	3.22	6.67
Quick Lubrication Vehicle Shop	941	Servicing Positions	5.19	40%	В	3.11	6.43	50%	3.22	3.22	10.01
Self-Service Car Wash Tire Store	947 848	Stall 1,000 SF GFA	5.54 4.15	40% 28%	В	3.32	1.20	50%	0.60	0.60	1.99
Dining	040	1,000 SF GFA	4.15	28%	A	2.99	6.43	50%	3.22	3.22	9.63
Fast Food Restaurant with Drive-Thru Window	934	1,000 SF GFA	33.84	50%	Α	16.92	4.79	50%	2.40	2.40	40.61
Fast Food Restaurant without Drive-Thru Window	933	1,000 SF GFA	26.15	50%	В	13.08	4.79	50%	2.40	2.40	31.39
High Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	11.15	43%	A	6.36	4.79	50%	2.40	2.40	15.26
Quality Restaurant	931	1,000 SF GFA	7.49	44%	A	4.19	4.79	50%	2.40	2.40	10.06
Coffee/Donut Shop with Drive-Thru Window  Other Retail	937	1,000 SF GFA	42.93	70%	A	12.88	4.79	50%	2.40	2.40	30.91
Free-Standing Discount Store	815	1,000 SF GFA	5.00	30%	С	3.50	6.43	50%	3.22	3.22	11.27
Nursery (Garden Center)	817	1,000 SF GFA	3.80	30%	В	2.66	6.43	50%	3.22	3.22	8.57
Home Improvement Superstore	862	1,000 SF GFA	2.37	48%	A	1.23	6.43	50%	3.22	3.22	3.96
Pharmacy/Drugstore w/o Drive-Thru Window	880	1,000 SF GFA	8.42	53%	A	3.96	6.43	50%	3.22	3.22	12.75
Pharmacy/Drugstore w/ Drive-Thru Window	881	1,000 SF GFA	10.35	49%	A	5.28	6.43	50%	3.22	3.22	17.00
Shopping Center Supermarket	820 850	1,000 SF GLA	3.71	34%	A	2.45	6.43	50%	3.22	3.22	7.89
Toy/Children's Superstore	850 864	1,000 SF GFA 1,000 SF GFA	10.50 4.99	36%	A B	6.72 3.49	6.43	50%	3.22	3.22	21.64
Department Store	875	1,000 SF GFA	1.78	30%	В	1.25	6.43	50%	3.22	3.22	4.03
Video Rental Store	896	1,000 SF GFA	13.60	50%	В	6.80	6.43	50%	3.22	3.22	21.90
SERVICES											
Walk-In Bank	911	1,000 SF GFA	12.13	40%	В	7.28	3.39	50%	1.70	1.70	12.38
Drive-In Bank Hair Salon	912 918	Drive-in Lanes	27.41	47%	A	14.53	3.39	50%	1.70	1.70	24.70
AMIL OUIUI	918	1,000 SF GLA	1.45	30%	В	1.02	3.39	50%	1.70	1.70	1.73

Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 3rd Edition (August 2014)
B: Estimated by Kimley-Horn based on ITE rates for similar categories
C: ITE rate adjusted upward by KHA based on logical relationship to other categories



## 2.5 SAMPLE CALCULATIONS

The following section details two (2) examples of maximum assessable roadway impact fee calculations.

## Example 1:

• Development Type - One (1) Unit of Single-Family Housing

	Roadway Impact Fee Calculation Steps – Example 1						
Step 1	Determine Development Unit and Vehicle-Miles Per Development Unit						
	From Table 2.11 [Land Use - Vehicle Mile Equivalency Table]						
	Development Type: 1 Dwelling Unit of Single-Family Detached Housing Number of Development Units: 1 Dwelling Unit Veh-Mi Per Development Unit: 5.00						
G.	Determine Maximum Assessable Impact Fee Per Service Unit						
Step 2	From Table 2.10, Line 13 [Maximum Assessable Fee Per Service Unit]						
2	Maximum Fee for City of Rowlett (Service Area 1): \$855 / vehicle-mile						
	Determine Maximum Assessable Impact Fee						
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit						
	Impact Fee = 1 * 5.00 * \$855						
	Maximum Assessable Impact Fee = \$4,275						

## Example 2:

Development Type – 125,000 square foot Home Improvement Superstore

	Roadway Impact Fee Calculation Steps – Example 2						
Step 1	Determine Development Unit and Vehicle-Miles Per Development Unit						
	From Table 2.11 [Land Use – Vehicle Mile Equivalency Table]						
	Development Type: 125,000 square feet of Home Improvement Superstore Development Unit: 1,000 square feet of Gross Floor Area Veh-Mi Per Development Unit: 3.96						
G4	Determine Maximum Assessable Impact Fee Per Service Unit						
Step 2	From Table 2.10, Line 18 [Maximum Assessable Fee Per Service Unit]						
2	Maximum Fee for City of Rowlett (Service Area 2): \$466 / vehicle-mile						
	Determine Maximum Assessable Impact Fee						
Step	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit						
3	Impact Fee = 125 * 3.96 * \$466						
	Maximum Assessable Impact Fee = \$230,670						



## 2.6 CONCLUSION

The City of Rowlett has established a process to implement the assessment and collection of roadway impact fees through the adoption of an impact fee ordinance that is consistent with Chapter 395 of the Texas Local Government Code.

This report establishes the maximum allowable roadway impact fee that could be assessed by the City of Rowlett. The maximum assessable roadway impact fee calculated in this report is \$855 (unchanged from 2014) for Service Area 1 and \$466 for Service Area 2 (from Table 2.10):

This document serves as a guide to the assessment of roadway impact fees pertaining to future development and the City's need for roadway improvements to accommodate that growth. Following the public hearing process, the City Council may establish an amount to be assessed (if any) up to the maximum established within this report and update the Roadway Impact Fee Ordinance accordingly.

In conclusion, it is our opinion that the data and methodology used in this update are appropriate and consistent with Chapter 395 of the Texas Local Government Code. Furthermore, the Land Use Assumptions and the proposed Capital Improvement Plan are appropriately incorporated into the process.



## **APPENDICES**

- A. CONCEPTUAL LEVEL PROJECT COST PROJECTIONS
- B. CIP SERVICE UNITS OF SUPPLY
- C. EXISTING ROADWAY FACILITIES INVENTORY
- D. LAND USE ASSUMPTIONS



## Appendix A – Conceptual Level Project Cost Projections

## City of Rowlett - 2013 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area 1

				Percent in		Total Cost in	
<u>#</u>	Class	<u>Project</u>	<u>Limits</u>	Service Area	Project Cost	Service Area	
1-A	В	Castle Dr.	Miles Rd. to Merritt Rd.	100%	\$ 2,185,000	\$ 2,185,00	
1-B	B, B+	Hickox Rd. (1)	Rowlett Rd. to 235' NE. of Toler Rd.	100%	\$ 2,737,012	\$ 2,737,01	
1-C	B+	Hickox Rd. (2)	235' NE. of Toler Rd. to Merritt Rd.	100%	\$ 3,531,000	\$ 3,531,00	
1-D	В	Merritt Rd.	N. City Limit to 860' SE. of Future Liberty Grove-Merritt Connector	100%	\$ 2,926,087	\$ 2,926,08	
1-E	Α	Liberty Grove-Merritt Connector (1)	PGBT NBFR to 805' E. of PGBT NBFR	100%	\$ 1,204,000	\$ 1,204,00	
1-F	В	Liberty Grove-Merritt Connector (2)	805' E. of PGBT NBFR to Liberty Grove Rd.	100%	\$ 3,106,000	\$ 3,106,00	
1-G	В	Liberty Grove Rd. (1)	Rosebud Dr. to PGBT SBFR	100%	\$ 2,908,000		
1-H	В	Liberty Grove Rd. (2)	PGBT NBFR to Merritt Rd.	100%	\$ 671,000	\$ 671,00	
1-I	В	Liberty Grove Rd. (3)	Merritt Rd. to Chiesa Rd.	100%	\$ 4,852,000	\$ 4,852,00	
1-J	В	Liberty Grove Rd. (4)	Chiesa Rd. to Princeton Rd.	100%	\$ 365,293	\$ 365,293	
1-K	В	Liberty Grove Rd. (5)	Broadmoor Ln. to Elm Grove Rd.	100%	\$ 3,867,000	\$ 3,867,000	
1-L	В	Elm Grove Rd.	N. City Limit to Liberty Grove Rd.	100%	\$ 4,655,000	\$ 4,655,000	
1-M	B+	Dalrock Rd. (1)	Liberty Grove Rd. to 770' SE. of Lake North Rd.	100%	\$ 2,505,000	\$ 2,505,00	
1-N	B+	Dalrock Rd. (2)	105' NE. of Pecan Ln. to Princeton Rd.	100%	\$ 7,131,000	\$ 7,131,00	
1-0	A (1/3)	Dalrock Rd. (3)	Princeton Rd. to Lakeview Pkwy.	100%	\$ 954,000	\$ 954,000	
1-P	С	Princeton Rd.	Existing Princeton Rd. to Liberty Grove Rd.	100%	\$ 675,000	\$ 675,000	
1-Q	В	Chiesa Rd. (1)	Liberty Grove Rd. to Danridge Rd.	100%	\$ 6,044,000	\$ 6,044,00	
1-R	С	Danridge Rd.	Maplewood Dr. to Traveler's Crossing	100%	\$ 902,000	\$ 902,00	
1-S	С	Freedom Ln.	Big A. Rd. to Lakeview Pkwy.	100%	\$ 533,000	\$ 533,00	
1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	50%	\$ 2,108,000	\$ 1,054,00	
1-U	HL-C3	HL Collector #1	HL Collector #1	100%	\$ 830,000	\$ 830,000	
1-V	HL-C2	HL Collector #2	HL Collector #2	100%	\$ 947,000	\$ 947,000	
ntersec	tion Im	provements					
1		Intersection Improvement	Dalrock Rd. at Lakeview Pkwy.	50%	\$ 1,250,000	\$ 625,00	
2		Signal Installation	Liberty Grove Rd. at Chiesa Rd.	100%	\$ 250,000	\$ 250,00	
3		Signal Installation	Princeton Rd. at Liberty Grove Rd.	100%	\$ 250,000	\$ 250,00	
4		Signal Installation	Merritt Rd. at Hickox Rd.	100%		\$ 250,00	
5		Signal Installation	Merritt Rd. at Castle Dr.	100%	\$ 250,000		
6		Signal Installation	Merritt Rd. at Liberty Grove Rd.	100%		\$ 450,000	
7		Signal Installation	Merritt Rd. at PGBT	100%	\$ 250,000	-	
			TOTAL		\$ 58,586,392		

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett. The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

Kimley-Horn and Associates, Inc.

9/25/2013 updated:

Project Information: Description: Project No. 1-A Name: Castle Dr. This project consists of the reconstruction of Castle Limits: Miles Rd. to Merritt Rd. Dr. as a 4-lane undivided secondary thoroughfare. Impact Fee Type: **Ultimate Class:** Secondary Thoroughfare

Length (If): 2,667

Service Area(s): 1

Roa	dway Construction Cost Pr	ojection						
No.	Item Description		Quantity	Unit	Un	it Price	11	Item Cost
106	Unclassified Street Excavation		7,112	су	\$	12.00	\$	85,344
206	6" Lime Stabilization (with Lime @	27#/sy)	13,928	sy	\$	4.00	\$	55,711
306	8" Concrete Pavement w/ 6" Curb	• .	13,335	sy	\$	46.00	\$	613,410
406	4" Topsoil		4,149	sy	\$	5.00	\$	20,743
506	4' Concrete Sidewalk		21,336	sf	\$	4.00	\$	85,344
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		F	Paving Consti	ruction (	Cost S	Subtotal:	\$	860,552
Majo	or Construction Component Allow	vances**:			E CHIE			
Majo	or Construction Component Allow Item Description	vances**:			Alle	owance		Item Cost
Majo		tion countries for the property of the propert			Alle	owance 6%	\$	Item Cost 51,633
Majo	Item Description	tion countries for the property of the propert	· Traffic Control		Allo			
7	Item Description Prep ROW	Notes	Traffic Control		Alle	6%	\$	51,633
7 7	Item Description Prep ROW Traffic Control	Notes			Allo	6% 5%	\$	51,633 43,028
777	Item Description Prep ROW Traffic Control Pavement Markings/Markers	Notes  Construction Phase			Alle	6% 5% 3%	\$ \$	51,633 43,028 25,817
7777	Item Description Prep ROW Traffic Control Pavement Markings/Markers Roadway Drainage	Notes  Construction Phase			Alle	6% 5% 3% 30%	\$ \$ \$	51,633 43,028 25,817 258,166
7777	Item Description Prep ROW Traffic Control Pavement Markings/Markers Roadway Drainage Illumination	Notes  Construction Phase Standard Internal S			Alle	6% 5% 3% 30% 6%	\$ \$ \$ \$ \$	51,633 43,028 25,817 258,166

V Establish Turf / Erosion Control V Basic Landscaping Other:  ***Allowances based on % of Paving Construction Cost Subtotal  Paving and Allowance Subtotal: Construction Contingency: 10%  \$ 25,817	· ·	vvaler	Minor Adjustments	6%	Ф	51,633
V Basic Landscaping Other:  **Allowances based on % of Paving Construction Cost Subtotal  Paving and Allowance Subtotal: Construction Contingency:  10%  1428,516	$\checkmark$	Sewer	Minor Adjustments	4%	\$	34,422
Other: \$0 \$ \$ **Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal: \$567,964  Paving and Allowance Subtotal: \$1,428,516  Construction Contingency: 10% \$142,852	$\checkmark$	Establish Turf / Erosion Control		3%	\$	25,817
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal: \$ 567,964  Paving and Allowance Subtotal: \$ 1,428,516  Construction Contingency: 10% \$ 142,852	$\checkmark$	Basic Landscaping		3%	\$	25,817
Paving and Allowance Subtotal: \$ 1,428,516  Construction Contingency: 10% \$ 142,852		Other:		\$0	\$	
Construction Contingency: 10% \$ 142,852	**Allo	wances based on % of Paving Construction Cos	t Subtotal Allow	ance Subtotal:	\$	567,964
Construction Contingency: 10% \$ 142,852						
			Paving and Allow	ance Subtotal:	\$	1,428,516
Construction Cost TOTAL: \$ 1,572,000			Construction Contingency	10%	\$	142,852
			Construction (	Cost TOTAL:	\$	1,572,000

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,572,000
Engineering/Survey/Testing:		18%	\$ 282,960
Mobilization		6%	\$ 94,320
Previous City contribution			
Other			,
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 235,800
	\$ 2,185,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

## 2013 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc. updated: 9/25/2013

Project Informa	ntion:	Description:	Project No.	1-B
Name: Limits:	Hickox Rd. (1) Rowlett Rd. to 235' NE. of Toler Rd.		oroject consisted of tour-lane divided sec	
Impact Fee Type: Ultimate Class: Length (If): Service Area(s):	B, B+ Secondary Thoroughfare 3,109	thoroughfare. Th undivided sectio	is project includes a n. This project was build wlett contribution of	1,225' ouilt in 2008

Item Description	Notes:	Allowance	Item Cost
City Contribution to Construction Cost: Engineering/Survey/Testing Other		-	\$ 2,737,012
ROW/Easement Acquisition:			

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		1: Description:			
Name: Hickox Rd. (2) Limits: 235' NE. of Toler Rd. to Merritt Rd.		: 'BRO'	sists of the reconstru		
Impact Fee Type:	B+	thoroughfare.	Tano arriada docom	y	
<b>Ultimate Class:</b>	Secondary Thoroughfare	•			
Length (If): 4,009					
Service Area(s):	1				

Roa	dway Construction Cost Pro	ection					
No.	Item Description		Quantity	Unit	Unit Price		Item Cost
105	Unclassified Street Excavation		12,472	су	\$ 12.00	\$	149,669
205	6" Lime Stabilization (with Lime @ 2	7#/sy)	24,054	sy	\$ 4.00	\$	96,216
	8" Concrete Pavement w/ 6" Curb		22,272	sy	\$ 38.00	\$	846,344
	4" Topsoil		12,027	sy	\$ 5.00	\$	60,135
	4' Concrete Sidewalk		32,072	sf	\$ 4.00	\$	128,288
605	Turn Lanes and Median Openings		2,898	sy	\$ 38.00	\$	110,131
		Pa	aving Const	ruction (	Cost Subtotal:	\$	1,390,783
- Transcore						200000000	
Majo	or Construction Component Allowa						
	Item Description	Notes			Allowance	L	Item Cost
\\	Prep ROW				6%		83,447
\ \ \	Traffic Control	Construction Phase	Traffic Control		5%		69,539
\ \	Pavement Markings/Markers				3%		41,724
\ \	Roadway Drainage	Standard Internal Sys	stem		30%		417,235
√	Illumination				6%		83,447
Ι,	Special Drainage Structures	None Anticipated			0%		-
\\	Water	Minor Adjustments			6%		83,447
\\	Sewer	Minor Adjustments			4%		55,631
\\	Establish Turf / Erosion Control				3%		41,724
V	Basic Landscaping				3%	\$	41,724
	Other:			2	\$0		-
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						917,917
Paving and Allowa <u>nce Subtotal:</u>							<b>2,308,700</b> 230,870
	Construction Contingency: 10%						
			Constru	ction C	ost TOTAL:	\$	2,540,000

Impact Fee Project Cost Sum Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,540,000
Engineering/Survey/Testing:		18%	\$ 457,200
Mobilization		6%	\$ 152,400
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 381,000
	Impact Fee P	roject Cost TOTAL:	\$ 3,531,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated: 9/25/2013

Project Information:		Description:	Project No.	1-D			
N. O'. II ' COOLOT '.		This project (currently under construction) consis of the construction of Merritt Rd. as a four-lane					
Limits: Impact Fee Type: Ultimate Class: Length (If): Service Area(s):	Future Liberty Grove-Merritt Connector B Secondary Thoroughfare 8,048	divided seconda	ry thoroughfare. This 292,905 with a City o	s project was a			

Impact Fee Project Cost Summary Item Description	Notes:	Allowance	Item Cost
City Contribution to Construction Cost: Engineering/Survey/Testing Other ROW/Easement Acquisition:		-	\$ 2,926,087
	Impact Fee Project C	ost TOTAL:	\$ 2,926,087

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated: 9

9/25/2013

Project Information:		Description:	Project No.	1-E
Name: Liberty Grove-Merritt Connector (1) Limits: PGBT NBFR to 805' E. of PGBT NI		1	This project consists of of the Liberty Grove-Mer	
Impact Fee Type: Ultimate Class: Length (If): Service Area(s):	A Major Thoroughfare 807 1		as a new 6-lane divided thoroughfare.	major

Roadway Construction Cost Projection								
No.	Item Description		Quantity	Unit	Un	it Price		Item Cost
103	Unclassified Street Excavation		3,587	су	\$	12.00	\$	43,040
203	6" Lime Stabilization (with Lime @ 2	?7#/sy)	6,994	sy	\$	4.00	\$	27,976
303	10" Concrete Pavement w/ 6" Curb		6,635	sy	\$	46.00	\$	305,225
403	4" Topsoil		2,511	sy	\$	5.00	\$	12,553
503	4' Concrete Sidewalk		6,456	sf	\$	4.00	\$	25,824
603	Turn Lanes and Median Openings		583	sy	\$	46.00	\$	26,836
		Pa	ving Const	ruction (	Cost S	Subtotal:	\$	441,455
Majo	or Construction Component Allowa	ınces**:			1978 B			
	Item Description	Notes			Allo	owance		Item Cost
$\vee$	Prep ROW					6%	\$	26,487
	Traffic Control	None Anticipated				0%	\$	-
V	Pavement Markings/Markers					3%	\$	13,244
√.	Roadway Drainage	Standard Internal System	em			30%	\$	132,436
√	Illumination					6%	\$	26,487
	Special Drainage Structures	None Anticipated				0%	\$	_
V	Water	Minor Adjustments				6%	\$	26,487
V	Sewer	Minor Adjustments				4%	\$	17,658
V	Establish Turf / Erosion Control					3%	\$	13,244
V	Basic Landscaping					3%	\$	13,244
	Other:					\$0	\$	-
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:							269,287
Paving and Allowance Subtotal:						\$	710,742	
Construction Contingency: 10%						\$	71,074	
							\$	782,000

Item Description	Notes:	Allowance		Item Cost	
Construction:		-	\$	782,000	
Engineering/Survey/Testing:		18%	\$	140,760	
Mobilization		6%	\$	46,920	
Previous City contribution					
Other					
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	234,600	
	Impact Fee Project Cost TOTAL:				

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

<b>Project Inf</b>	ormation:	Description:	Project No.	1-F
Name:	Liberty Grove-Merritt Connector (2)	This project cons	sists of the construc	tion of the
	805' E. of PGBT NBFR to Liberty	Liberty Grove-Me	erritt Connector as a	new 4-lane

Limits: Grove Rd.

Impact Fee Type: В

**Ultimate Class:** Secondary Thoroughfare

Length (If): 2,567 Service Area(s):

Liberty Grove-Merritt Connector as a new 4-lane undivided secondary thoroughfare.

No.	Item Description	Quantity	Unit	Unit Price			Item Cost
106	Unclassified Street Excavation	6,845	су	\$	12.00	\$	82,144
206	6" Lime Stabilization (with Lime @ 27#/sy)	13,405	sy	\$	4.00	\$	53,622
306	8" Concrete Pavement w/ 6" Curb	12,835	sy	\$	46.00	\$	590,410
406	4" Topsoil	3,993	sy	\$	5.00	\$	19,966
506	4' Concrete Sidewalk	20,536	sf	\$	4.00	\$	82,144
606	Turn Lanes and Median Openings	0	sy	\$	-	\$	-
Paving Construction Cost Subtotal: \$						828,285	

Major Construction Item Description	Component Allowanc	ces**: Notes	Allowance	Item Cost
√ Prep ROW			6%	\$ 49,697
Traffic Control	N	None Anticipated	0%	\$ -
√ Pavement Mark	ings/Markers		3%	\$ 24,849
√ Roadway Draina	age s	Standard Internal System	30%	\$ 248,486
√ Illumination			6%	\$ 49,697
√ Special Drainag	e Structures	Crosses Muddy Creek	\$500,000	\$ 500,000
√ Water	IN	Minor Adjustments	6%	\$ 49,697
√ Sewer	M	Minor Adjustments	4%	\$ 33,131
√ Establish Turf /	Erosion Control		3%	\$ 24,849
√ Basic Landscap	ing		3%	\$ 24,849
Other:			\$0	\$ -
**Allowances based on % of	of Paving Construction Cost S	Subtotal Allowa	ance Subtotal:	\$ 1,005,254
		Paving and Allowa	ance Subtotal:	\$ 1,833,539
		Construction Contingency:	10%	\$ 183,354
		Construction C	ost TOTAL:	\$ 2,017,000

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,017,000
Engineering/Survey/Testing:		18%	\$ 363,060
Mobilization		6%	\$ 121,020
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 605,100
	Impact Fee Pro	ject Cost TOTAL:	\$ 3,106,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

**Roadway Construction Cost Projection** 

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

roject Information:		Description:	Project No.	1-G		
Name:	Liberty Grove Rd. (1)	This project cons	ists of the reconstru	uction of		
Limits:	Rosebud Dr. to PGBT SBFR	Liberty Grove Rd. as a 4-lane undivided second				
Impact Fee Type:	В	thoroughfare.				
<b>Ultimate Class:</b>	Secondary Thoroughfare					
Length (If):	3,550					
Service Area(s):	1					

No.	Item Description		Quantity	Unit	Uni	t Price		Item Cost
106				\$	12.00	\$	113,600	
206	06 6" Lime Stabilization (with Lime @ 27#/sy) 18,539 sy			\$	4.00	\$	74,156	
306	8" Concrete Pavement w/ 6" Curb		17,750	sy	\$	46.00	\$	816,500
406	4" Topsoil		5,522	sy	\$	5.00	\$	27,611
506	4' Concrete Sidewalk		28,400	sf	\$	4.00	\$	113,600
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	aving Const	ruction (	Cost S	ubtotal:	\$	1,145,467
TYPER	C 4 - 4 - C 4 All							
Majo	or Construction Component Allowa	Notes			Allo	wance		Item Cost
	Item Description	Notes			Allo	6%	\$	68,728
N	Prep ROW	O to time Diverse 3	F#:- O41			5%		and the second s
N.	Traffic Control	Construction Phase	raffic Control				\$	57,273
N,	Pavement Markings/Markers					3%	D D	34,364
V	Roadway Drainage	Standard Internal Sys	stem			30%	Φ Φ	343,640
٧	Illumination					6%	Þ	68,728
,	Special Drainage Structures	None Anticipated				0%	\$	
V	Water	Minor Adjustments				6%	\$	68,728
V	Sewer	Minor Adjustments				4%		45,819
√,	Establish Turf / Erosion Control					3%	\$	34,364
V	Basic Landscaping					3%	\$	34,364
	Other:				L	\$0	\$	
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						\$	756,008
			Daving an	al Allanna			•	4 004 475
		Compten	Paving an					<b>1,901,475</b> 190,147
	Construction Cost TOTAL:						\$	2,092,000

Notes:	Allowance		Item Cost	
	-	\$	2,092,000	
	18%	\$	376,560	
	6%	\$	125,520	
Existing Alignment	15%	\$	313,800	
·				
	Existing Alignment	- 18% 6% Existing Alignment 15%	- \$ 18% \$ 6% \$	

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2013 Roadway Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Informa	tion:	Description:	Project No.	1-H
Name: Limits: Impact Fee Type: Ultimate Class: Length (If):	Liberty Grove Rd. (2) PGBT NBFR to Merritt Rd. B Secondary Thoroughfare 819	This project cons	sists of the reconstru . as a 4-lane undivide	iction of
Service Area(s):	1			

	Item Description		Quantity	Unit	Un	it Price	110	Item Cost
	Unclassified Street Excavation		2,184	су	\$	12.00	\$	26,208
206	6" Lime Stabilization (with Lime @	27#/sy)	4,277	sy	\$	4.00	\$	17,108
306	8" Concrete Pavement w/ 6" Curb		4,095	sy	\$	46.00	\$	188,370
406	4" Topsoil		1,274	sy	\$	5.00	\$	6,370
506	4' Concrete Sidewalk		6,552	sf	\$	4.00	\$	26,208
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	
			aving Const	ruction	Cost S	Subtotal:	\$	264,264
Maj	or Construction Component Allow	ances**:						40.4
	Item Description	Notes			Alle	owance		Item Cost
V	Prep ROW		7		2 100 10	6%	\$	15,856
√.	Traffic Control	Construction Phase	Traffic Control			5%	\$	13,213
V	Pavement Markings/Markers					3%	\$	7,928
V	Roadway Drainage	Standard Internal Sys	stem			30%	\$	79,279
$\checkmark$	Illumination	A a				6%	\$	15,856
	Special Drainage Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	Minor Adjustments				6%	\$	15,856
$\checkmark$	Sewer	Minor Adjustments				4%		10,571
V	Establish Turf / Erosion Control					3%	\$	7,928
$\checkmark$	Basic Landscaping					3%	\$	7,928
	Other:				1	\$0	\$	_
**Allo	Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:							174,414
			Paving and				\$	438,678
		Constru	uction Conti	_		10%	\$	43,868
	Construction Cost TOTAL:						\$	483,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 483,000
Engineering/Survey/Testing:		18%	\$ 86,940
Mobilization		6%	\$ 28,980
Previous City contribution			
Other		25 PA 25 PA 25 PA 25 PA 25 PA	
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 72,450
	Impact Fee F	Project Cost TOTAL:	\$ 671,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:	Project No.	1-I			
Name:	Liberty Grove Rd. (3)	This project consists of the reconstruction of					
Limits:	Merritt Rd. to Chiesa Rd.	Liberty Grove Rd. as a 4-lane undivided seconda thoroughfare.					
Impact Fee Type:	В						
<b>Ultimate Class:</b>	Secondary Thoroughfare						
Length (If):	4,990						
Service Area(s):	1						

Roa	adway Construction Cost Proj	ection						
	Item Description		Quantity	Unit	Un	it Price		Item Cost
106	Unclassified Street Excavation		13,307	су	\$	12.00	\$	159,680
206	6" Lime Stabilization (with Lime @ 2"	7#/sy)	26,059	sy	\$	4.00	\$	104,236
306	8" Concrete Pavement w/ 6" Curb		24,950	sy	\$	46.00	\$	1,147,700
406	4" Topsoil		7,762	sy	\$	5.00	\$	38,811
506	4' Concrete Sidewalk		39,920	sf	\$	4.00	\$	159,680
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	aving Const	ruction (	Cost S	Subtotal:	\$	1,610,107
TYPE	- C							
Waje	or Construction Component Allowa	CONTRACTOR OF THE RESIDENCE OF THE PROPERTY OF			AII			H O4
	Item Description	Notes			Alle	owance		Item Cost
\\	Prep ROW	L				6%		96,606
N,	Traffic Control	Construction Phase 1	raffic Control			5%	12	80,505
٧,	Pavement Markings/Markers					3%		48,303
\ \	Roadway Drainage	Standard Internal Sys	stem			30%	100	483,032
V	Illumination					6%	\$	96,606
√	Special Drainage Structures	Crosses Muddy Cree	k		\$	500,000	\$	500,000
$\vee$	Water	Minor Adjustments				6%	\$	96,606
V	Sewer	Minor Adjustments				4%	\$	64,404
$\vee$	Establish Turf / Erosion Control					3%	\$	48,303
$\checkmark$	Basic Landscaping					3%	\$	48,303
	Other: \$0					\$	-	
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:							1,562,670
			Paving an				8	3,172,777
Construction Contingency: 10%						-	317,278	
Construction Cost TOTAL:						\$	3,491,000	

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,491,000
Engineering/Survey/Testing:		18%	\$ 628,380
Mobilization		6%	\$ 209,460
Previous City contribution		The second secon	
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 523,650
	Impact Fee P	roject Cost TOTAL:	\$ 4,852,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated:

9/25/2013

<b>Project Informa</b>	ntion:	Description:	Project No.	1-J
Name: Limits: Impact Fee Type: Ultimate Class: Length (If):	Liberty Grove Rd. (4) Chiesa Rd. to Princeton Rd. B Secondary Thoroughfare 1,492	Liberty Grove Rd. thoroughfare. Thi project that include	roject consisted of to a four-lane divides project was part of ded Chiesa Rd. The \$2,171,924. \$365,29	ed secondary f a 2007 total Rowlett
Service Area(s):	1	cost was included	d in this project.	

Notes:	Allowance		Item Cost
	-	\$	365,293
Impact Fee Project (	Cost TOTAL:	•	365,293
		Notes: Allowance	The state of the s

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2013 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:	Project No.	1-K
Name: Limits: Impact Fee Type: Ultimate Class: Length (If): Service Area(s):	Liberty Grove Rd. (5) Broadmoor Ln. to Elm Grove Rd. B Secondary Thoroughfare 4,440 1		ists of the reconstru as a 4-lane undivide	

	Item Description		Quantity Unit Unit Price					Item Cost
	Unclassified Street Excavation		11,840	су	\$	12.00	\$	142,080
	6" Lime Stabilization (with Lime @ 2	?7#/sy)	23,187	sy	\$	4.00	\$	92,747
306	8" Concrete Pavement w/ 6" Curb		22,200	sy	\$	46.00	\$	1,021,200
	4" Topsoil		6,907	sy	\$	5.00	\$	34,533
	4' Concrete Sidewalk		35,520	sf	\$	4.00	\$	142,080
606	Turn Lanes and Median Openings		0	sy	\$		\$	-
Majo	Paving Construction Cost Subtotal:  Major Construction Component Allowances**:							1,432,640
	Item Description	Notes			Allo	owance		Item Cost
V	Prep ROW					6%	\$	85,958
<b>√</b>	Traffic Control	Construction Phase 1	raffic Control			5%	\$	71,632
٧,	Pavement Markings/Markers					3%	\$	42,979
٧,	Roadway Drainage	Standard Internal Sys	stem			30%	\$	429,792
٧,	Illumination	-				6%	\$	85,958
√,	Special Drainage Structures	Minor Stream Crossin	ng		\$	150,000	\$	150,000
√,	Water	Minor Adjustments				6%	\$	85,958
√,	Sewer	Minor Adjustments				4%	\$	57,306
٧,	Establish Turf / Erosion Control					3%	\$	42,979
V	Basic Landscaping					3%	\$	42,979
	Other:					\$0	\$	, , , ,
**Allov	**Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal:						\$	1,095,542
	Paving and Allowance Subtotal:						\$	2,528,182
	Construction Contingency: 10%							252,818
	Construction Cost TOTAL:						\$	2,782,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,782,000
Engineering/Survey/Testing:		18%	\$ 500,760
Mobilization		6%	\$ 166,920
Previous City contribution			,
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 417,300
	Impact Fee P	roject Cost TOTAL:	\$ 3,867,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated:

9/25/2013

<b>Project Informa</b>	tion:	Description:	Project No.	1-L			
Name: Elm Grove Rd.		This project consists of the reconstruction of Eln					
Limits: N. City Limit to Liberty Grove Rd.		Grove Rd. as a 4-lane undivided secondary					
Impact Fee Type: B		thoroughfare.					
<b>Ultimate Class:</b>	Secondary Thoroughfare						
Length (If):	5,684						
Service Area(s):	1						

Roa	dway Construction Cost Proj	ection					
No.	Item Description		Quantity	Unit	Unit Price		Item Cost
	Unclassified Street Excavation		15,157	су	\$ 12.00	\$	181,888
206	6" Lime Stabilization (with Lime @ 2"	7#/sy)	29,683	sy	\$ 4.00	\$	118,732
306	8" Concrete Pavement w/ 6" Curb		28,420	sy	\$ 46.00	\$	1,307,320
406	4" Topsoil		8,842	sy	\$ 5.00	\$	44,209
-	4' Concrete Sidewalk		45,472	sf	\$ 4.00	\$	181,888
606	Turn Lanes and Median Openings		0	sy	\$ -	\$	-
		Pa	aving Const	ruction (	Cost Subtotal:	\$	1,834,037
CYTROPIC ST							
Majo	r Construction Component Allowa						
_	Item Description	Notes			Allowance		Item Cost
V	Prep ROW				6%	-	110,042
<b>V</b>	Traffic Control	Construction Phase 1	raffic Control		5%		91,702
N,	Pavement Markings/Markers				3%		55,021
N,	Roadway Drainage	Standard Internal Sys	stem		30%		550,211
√	Illumination				6%		110,042
١.	Special Drainage Structures	None Anticipated			0%		-
√,	Water	Minor Adjustments			6%	\$	110,042
V	Sewer	Minor Adjustments			4%	\$	73,361
√.	Establish Turf / Erosion Control				3%	\$	55,021
V	Basic Landscaping				3%	\$	55,021
	Other:				\$0		-
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:							1,210,465
Paving and Allowa <u>nce Subtotal:</u>							3,044,502
Construction Contingency: 10%							304,450 <b>3,349,000</b>
	Construction Cost TOTAL:						

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,349,000
Engineering/Survey/Testing:		18%	\$ 602,820
Mobilization		6%	\$ 200,940
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 502,350
	Impact Fee F	Project Cost TOTAL:	\$ 4,655,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated: 9/25/2013

<b>Project Infe</b>	ormation:	Description:	Project No.	1-M
Name:	Dalrock Rd. (1)	This	project consists of th	ne

Limits: Liberty Grove Rd. to 770' SE. of Lake North Rd. reconstruction of Dalrock Rd. as a 4-

Impact Fee Type:

lane divided secondary thoroughfare.

**Ultimate Class:** 

Secondary Thoroughfare

Length (If): 2,409 Service Area(s): 1

Roa	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Uni	t Price	Item Cost
105	Unclassified Street Excavation		7,495	су	\$	12.00	\$ 89,936
205	6" Lime Stabilization (with Lime @ 2	7#/sy)	14,454	sy	\$	4.00	\$ 57,816
305	8" Concrete Pavement w/ 6" Curb		13,383	sy	\$	38.00	\$ 508,567
405	4" Topsoil		7,227	sy	\$	5.00	\$ 36,135
505	4' Concrete Sidewalk		19,272	sf	\$	4.00	\$ 77,088
605	Turn Lanes and Median Openings		1,742	sy	\$	38.00	\$ 66,177
		P	aving Const	ruction (	Cost S	ubtotal:	\$ 835,719
Majo	or Construction Component Allowa						
	Item Description	Notes			Allo	wance	Item Cost
V	Prep ROW					6%	\$ 50,143
\ V	Traffic Control	Construction Phase	Traffic Control			5%	\$ 41,786
V	Pavement Markings/Markers					3%	\$ 25,072
V	Roadway Drainage	Standard Internal Sy	stem			30%	\$ 250,716
V	Illumination					6%	\$ 50,143
$\vee$	Special Drainage Structures	Minor Stream Crossi	ng		\$:	250,000	\$ 250,000
$\checkmark$	Water	Minor Adjustments				6%	\$ 50,143
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 33,429
$\checkmark$	Establish Turf / Erosion Control					3%	\$ 25,072
$\checkmark$	Basic Landscaping			1		3%	\$ 25,072
	Other:					\$0	\$ -
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:					\$ 801,574	
	-						·
	Paving and Allowance Subtotal:						\$ 1,637,293
	Construction Contingency: 10%						163,729

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,802,000
Engineering/Survey/Testing:		18%	\$ 324,360
Mobilization		6%	\$ 108,120
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 270,300
	\$ 2,505,000		

**Construction Cost TOTAL:** 

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

1,802,000

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:		Project No.	1-N
Name: Limits:	Dalrock Rd. (2) 105' NE. of Pecan Ln. to Princeton Rd			ect consists of the	
Impact Fee Type:	B+	•		ed secondary th	
Ultimate Class:	Secondary Thoroughfare		idile divid	ca secondary ti	iorouginare
Length (If):	7,663				
Service Area(s):	1				

Roadway Construction Cost Projection							
No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
				\$	12.00	\$ 286,085	
205	6" Lime Stabilization (with Lime @ 2	7#/sy)	45,978	sy	\$	4.00	\$ 183,912
	8" Concrete Pavement w/ 6" Curb		42,572	sy	\$	38.00	\$ 1,617,744
	4" Topsoil		22,989	sy	\$	5.00	\$ 114,945
	4' Concrete Sidewalk		61,304	sf	\$	4.00	\$ 245,216
605	Turn Lanes and Median Openings		5,540	sy	\$	38.00	\$ 210,509
		Pa	aving Const	ruction (	Cost S	Subtotal:	\$ 2,658,412
Majo	or Construction Component Allowa	and the second control of the second					
<u> </u>	Item Description	Notes			Allo	owance	Item Cost
V	Prep ROW					6%	\$ 159,505
V	Traffic Control	Construction Phase 7	Traffic Control			5%	\$ 132,921
V	Pavement Markings/Markers					3%	\$ 79,752
N,	Roadway Drainage	Standard Internal Sys	stem			30%	\$ 797,524
V,	Illumination					6%	\$ 159,505
V.	Special Drainage Structures	Minor Stream Crossin	ng		\$	250,000	\$ 250,000
\ V	Water	Minor Adjustments				6%	\$ 159,505
√,	Sewer	Minor Adjustments				4%	\$ 106,336
V	Establish Turf / Erosion Control					3%	\$ 79,752
V	Basic Landscaping					3%	\$ 79,752
	Other:					\$0	\$ -
**Allov	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						\$ 2,004,552
	Paving and Allowance Subtotal:						4,662,964
Construction Contingency: 10%						466,296	
	Construction Cost TOTAL:						\$ 5,130,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 5,130,000
Engineering/Survey/Testing:		18%	\$ 923,400
Mobilization		6%	\$ 307,800
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 769,500
	Impact Fee F	Project Cost TOTAL:	\$ 7,131,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Service Area(s):

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:	Project No.	1-0		
Name:	Dalrock Rd. (3)	This project consists of the construction of two				
Limits:	Princeton Rd. to Lakeview Pkwy.	(wy. additional lanes within the existing med				
Impact Fee Type:	A (1/3)					
<b>Ultimate Class:</b>	Major Thoroughfare					
Length (If):	1,911					

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation	4,247	су	\$	12.00	\$ 50,960
204	6" Lime Stabilization (with Lime @ 27#/sy)	8,281	sy	\$	4.00	\$ 33,124
304	10" Concrete Pavement w/ 6" Curb	7,856	sy	\$	46.00	\$ 361,391
404	4" Topsoil	2,442	sy	\$	5.00	\$ 12,209
504	4' Concrete Sidewalk	15,288	sf	\$	4.00	\$ 61,152
604	Turn Lanes and Median Openings	1,381	sy	\$	46.00	\$ 63,549

Paving Construction Cost Subtotal: \$ 582,385

Maio	or Construction Component Allowa	nces**:			
hobbbar b	Item Description	Notes	Allowance	COMMENSA	Item Cost
	Prep ROW		6%	\$	34,943
$\checkmark$	Traffic Control	Construction Phase Traffic Control	5%	\$	29,119
$\checkmark$	Pavement Markings/Markers		3%	\$	17,472
1	Roadway Drainage	None Anticipated	0%	\$	-
1	Illumination		0%	\$	-
1	Special Drainage Structures	None Anticipated	0%	\$	-
1	Water	None Anticipated	0%	\$	-
	Sewer	None Anticipated	0%	\$	-
$\checkmark$	Establish Turf / Erosion Control		3%	\$	17,472
$\checkmark$	Basic Landscaping		3%	\$	17,472
	Other:		\$0	\$	-
**Allo	wances based on % of Paving Construction Cos	st Subtotal Allow	ance Subtotal:	\$	116,477
		Paving and Allow	ance Subtotal:	\$	698,862
1	Construction Contingency: 10%				
	Construction Cost TOTAL:				

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 769,000
Engineering/Survey/Testing:		18%	\$ 138,420
Mobilization		6%	\$ 46,140
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$
	Impact Fee Project	t Cost TOTAL:	\$ 954,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated: 9/25/2013

Project Information:		Description:	Projec	t No.	1-P
Name: Limits:	Princeton Rd. Existing Princeton Rd. to Liberty Grove	Pd	This project cons		
Impact Fee Type:	C	Nu.	undivided collector Princeton Rd. nor		
Ultimate Class:	Collector Thoroughfare		r miceton Ka. nor	til OI LIDE	arty Grove Ru
Length (If):	987				
Service Area(s):	1				

Roa	adway Construction Cost Pro	jection			7			
No.	Item Description		Quantity	Unit	Unit	Price		Item Cost
107	Unclassified Street Excavation		2,303	су	\$	12.00	\$	27,636
207	07 6" Lime Stabilization (with Lime @ 27#/sy)		4,496	sy	\$	4.00	\$	17,985
307	8" Concrete Pavement w/ 6" Curb		4,277	sy	\$	38.00	\$	162,526
	4" Topsoil		1,426	sy	\$	5.00	\$	7,128
507	4' Concrete Sidewalk		7,896	sf	\$	4.00	\$	31,584
607	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
	Paving Construction Cost Subtotal:					\$	246,860	
							normanium on	
Majo	or Construction Component Allows	months and the second control of the second						
	Item Description	Notes			Allow	/ance		Item Cost
V	Prep ROW					6%	\$	14,812
١.	Traffic Control	None Anticipated				0%	\$	-
\\	Pavement Markings/Markers					3%	\$	7,406
V	Roadway Drainage	Standard Internal Sys	stem			30%	\$	74,058
√	Illumination			-		6%	\$	14,812
	Special Drainage Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	Minor Adjustments				6%	\$	14,812
$\checkmark$	Sewer	Minor Adjustments				4%	\$	9,874
$\checkmark$	Establish Turf / Erosion Control					3%	\$	7,406
$\vee$	Basic Landscaping	1				3%	\$	7,406
	Other:					\$0	\$	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce Su	btotal:	\$	150,584
			a .				ella.	
			Paving an	d Allowa	nce Su	btotal:	\$	397,444
		Constru	ection Conti	ngency:		10%	\$	39,744
	Construction Cost TOTAL:							438,000

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:	Allowance		Item Cost
Construction:	The second of th	-	\$	438,000
Engineering/Survey/Testing:		18%	\$	78,840
Mobilization	4.00	6%	\$	26,280
Previous City contribution				
Other			l	
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	131,400
	Impact Fee Pro	ject Cost TOTAL:	\$	675,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:	Project No.	1-Q			
Name: Chiesa Rd. (1)		This project consists of the reconstruction of					
Limits:	Liberty Grove Rd. to Danridge Rd.	Chiesa Rd. as a 4	l-lane undivided seco	ondary			
Impact Fee Type: B		thoroughfare.					
<b>Ultimate Class:</b>	Secondary Thoroughfare						
Length (If):	7,379						
Service Area(s):	1						

Roa	dway Construction Cost Pro	ection						
No.	Item Description		Quantity	Unit	Unit	Price	- 37	Item Cost
106	Unclassified Street Excavation		19,677	су	\$	12.00	\$	236,128
206	6" Lime Stabilization (with Lime @ 2	7#/sy)	38,535	sy	\$	4.00	\$	154,139
	8" Concrete Pavement w/ 6" Curb		36,895	sy	\$	46.00	\$	1,697,170
	4" Topsoil		11,478	sy	\$	5.00	\$	57,392
	4' Concrete Sidewalk		59,032	sf	\$	4.00	\$	236,128
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
	Paving Construction Cost Subtotal:						\$	2,380,957
Maia	or Construction Company Allows	n 000**:						
Melle	or Construction Component Allowa Item Description	Notes			Allow	ance		Item Cost
V	Prep ROW	Notes			Allow		•	
V	Traffic Control	Canada adia a Bhasa 7	F#:- O+I			6%	\$ 6	142,857
V	Pavement Markings/Markers	Construction Phase T	raπic Control			5%	81	119,048
Ì	Roadway Drainage	Chandard Internal Con				3% 30%		71,429
Ì	Illumination	Standard Internal Sys	stem			30% 6%	\$	714,287
Ι'	Special Drainage Structures	Nama Antininatad					9	142,857
./	Water	None Anticipated				0%	Ð	440.057
N N	Sewer	Minor Adjustments				6%	\$	142,857
N	Establish Turf / Erosion Control	Minor Adjustments				4%	\$	95,238
V						3%	4	71,429
ľ	Basic Landscaping Other:					3%	Þ	71,429
** A II o		-t Cubtotal		Allowe	nce Su	\$0	\$	4 574 422
Allov	wances based on % of Paving Construction Co	SI SUDIOIAI		Allowa	ince Su	Diotal:	Þ	1,571,432
			Paving an	d Allowa	nce Su	btotal:	\$	3,952,389
		Constru	uction Conti	ngency:	AL TOTAL	10%		395,239
			Construc	ction C	ost TC	TAL:	\$	4,348,000

mpact Fee Project Cost Summary							
Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	4,348,000			
Engineering/Survey/Testing:		18%	\$	782,640			
Mobilization		6%	\$	260,880			
Previous City contribution							
Other							
ROW/Easement Acquisition:	Existing Alignment	15%	\$	652,200			
	Impact Fee P	Project Cost TOTAL:	\$	6,044,000			

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

 Project Information:
 Description:
 Project No.
 1-R

 Name:
 Danridge Rd.
 This project consists of a new 2-lane undivided

Limits: Maplewood Dr. to Traveler's Crossing collector extension of Danridge Rd.

Impact Fee Type: C

Ultimate Class: Collector Thoroughfare

Length (If): 1,321 Service Area(s): 1

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
107	Unclassified Street Excavation		3,082	су	\$	12.00	\$ 36,988
207	6" Lime Stabilization (with Lime @ 2	7#/sy)	6,018	sy	\$	4.00	\$ 24,072
307	8" Concrete Pavement w/ 6" Curb		5,724	sy	\$	38.00	\$ 217,525
	4" Topsoil		1,908	sy	\$	5.00	\$ 9,541
507	4' Concrete Sidewalk		10,568	sf	\$	4.00	\$ 42,272
607	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
	Paving Construction Cost Subtota						\$ 330,397
Maio	or Construction Component Allowa	ınces**•					
heleleben". Bo	Item Description	Notes			All	owance	Item Cost
$\checkmark$	Prep ROW					6%	\$ 19,824
	Traffic Control	None Anticipated				0%	\$ -
$\checkmark$	Pavement Markings/Markers					3%	\$ 9,912
$\checkmark$	Roadway Drainage	Standard Internal Sys	stem			30%	\$ 99,119
$\checkmark$	Illumination					6%	\$ 19,824
	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 19,824
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 13,216
$\checkmark$	Establish Turf / Erosion Control					3%	\$ 9,912
$\checkmark$	Basic Landscaping	1				3%	\$ 9,912
	Other:					\$0	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ince (	Subtotal:	\$ 201,542
		_	Paving an				531,939
		Constru	ection Conti			10%	53,194
			Construc	ction C	ost '	TOTAL:	\$ 586,000

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:	Allowance	Z. Inn	Item Cost
Construction:		-	\$	586,000
Engineering/Survey/Testing:		18%	\$	105,480
Mobilization		6%	\$	35,160
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	175,800
	Impact Fee Pro	ject Cost TOTAL:	\$	902,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated: 9/25/2013

 Project Information:
 Description:
 Project No.
 1-S

 Name:
 Freedom Ln.
 This project consists of a new 2-lane undivided

Limits: Big A. Rd. to Lakeview Pkwy.

ig A. Rd. to Lakeview Pkwy. collector extension of Freedom Ln.

Impact Fee Type: C

Ultimate Class: Collector Thoroughfare

Length (If): 781 Service Area(s): 1

Roa	dway Construction Cost Proj	ection					
	Item Description		Quantity	Unit	Un	it Price	Item Cost
107	Unclassified Street Excavation		1,822	су	\$	12.00	\$ 21,868
207	6" Lime Stabilization (with Lime @ 27	7#/sy)	3,558	sy	\$	4.00	\$ 14,232
307	8" Concrete Pavement w/ 6" Curb		3,384	sy	\$	38.00	\$ 128,605
407	4" Topsoil		1,128	sy	\$	5.00	\$ 5,641
507	4' Concrete Sidewalk		6,248	sf	\$	4.00	\$ 24,992
607	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
	Paving Construction Cost Subtotal:				\$ 195,337		
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			Alle	owance	Item Cost
$\checkmark$	Prep ROW					6%	\$ 11,720
	Traffic Control	None Anticipated				0%	\$ -
$\checkmark$	Pavement Markings/Markers					3%	\$ 5,860
$\checkmark$	Roadway Drainage	Standard Internal Syst	em			30%	\$ 58,601
$\checkmark$	Illumination					6%	\$ 11,720
	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 11,720
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 7,813
$\checkmark$	Establish Turf / Erosion Control			8		3%	\$ 5,860
$\checkmark$	Basic Landscaping					3%	\$ 5,860
	Other:					\$0	\$ -
**Allo	wances based on % of Paving Construction Cos	st Subtotal		Allowa	nce S	Subtotal:	\$ 119,155
			Paving an			Subtotal:	\$ 314,492
		Constru	ction Conti	ngency:		10%	\$ 31,449
			Constru	ction C	ost 7	TOTAL:	\$ 346,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 346,000
Engineering/Survey/Testing:		18%	\$ 62,280
Mobilization		6%	\$ 20,760
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 103,800
ROW/Easement Acquisition:		30% Dject Cost TOTAL:	 <u>1</u> 53

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated:

9/25/2013

<b>Project Informa</b>	tion:	Description:	Project No.	1-T, 2-L	
Name: Limits:	Lakeview Pkwy. Dalrock Rd. to E. City Limit		ists of the constru		
Impact Fee Type: Ultimate Class:	A+ (1/3) Major Thoroughfare	6-lane major thor			
Length (If): Service Area(s):	4,225 1,2				

Roa	dway Construction Cost Proj	ection		W.			
	Item Description		Quantity	Unit	Unit	Price	Item Cost
102	Unclassified Street Excavation		9,389	су	\$	12.00	\$ 112,667
202	6" Lime Stabilization (with Lime @ 27	/#/sy)	18,308	sy	\$	4.00	\$ 73,233
302	10" Concrete Pavement w/ 6" Curb	•	17,369	sy	\$	46.00	\$ 798,994
402	4" Topsoil		5,399	sy	\$	5.00	\$ 26,993
502	502 4' Concrete Sidewalk		33,800	sf	\$	4.00	\$ 135,200
602	Turn Lanes and Median Openings		3,054	sy	\$	46.00	\$ 140,499
	Paving Construction Cost Subtotal:					\$ 1,287,586	
						120	
Majo	or Construction Component Allowar						
	Item Description	Notes			Allov	vance	Item Cost
V	Prep ROW					6%	\$ 77,255
V	Traffic Control	Construction Phase 1	Traffic Control			5%	\$ 64,379
$\checkmark$	Pavement Markings/Markers					3%	\$ 38,628
l	Roadway Drainage	None Anticipated				0%	\$ -
	Illumination					0%	\$ -
	Special Drainage Structures	None Anticipated				0%	\$ -
	Water	None Anticipated				0%	\$ -
	Sewer	None Anticipated				0%	\$ -
$\checkmark$	Establish Turf / Erosion Control					3%	\$ 38,628
V	Basic Landscaping					3%	\$ 38,628
	Other:					\$0	\$ -
**Allo	vances based on % of Paving Construction Cos	t Subtotal		Allowa	nce Su	ıbtotal:	\$ 257,517
		9.1			11		φ
			Paving an			ıbtotal:	\$ 1,545,104
		Constru	uction Conti	ngency:		10%	\$ 154,510
			Constru	ction C	ost T	OTAL:	\$ 1,700,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,700,000
Engineering/Survey/Testing:		18%	\$ 306,000
Mobilization		6%	\$ 102,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$
	Impact Fee Project	t Cost TOTAL	\$ 2,108,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc.

updated:

9/25/2013

Project Information:		Description:	Project No.	1-U
Name: Limits: Impact Fee Type: Ultimate Class:	HL Collector #1 HL Collector #1 HL-C3 Healthy Living Collector-3	This project cons	ists of the construct	ion of a new 2-
Length (If): 1,160 Service Area(s): 1				

Roa	dway Construction Cost Proj	ection					
	Item Description		Quantity	Unit	Unit Price		Item Cost
114	Unclassified Street Excavation	70	2,964	су	\$ 12.00	\$	35,573
214	6" Lime Stabilization (with Lime @ 27	/#/sy)	5,800	sy	\$ 4.00	\$	23,200
314	8" Concrete Pavement w/ 6" Curb		5,542	sy	\$ 38.00	\$	210,604
414	414 4" Topsoil		2,256	sy	\$ 5.00	\$	11,278
514	5' Concrete Sidewalk		5,800	sf	\$ 4.00	\$	23,200
614	614 Turn Lanes and Median Openings		0	sy	\$ -	\$	-
	Paving Construction Cost Subtotal:					\$	303,856
ryntere						- Contraction	
Majo	r Construction Component Allowar						
<u> </u>	Item Description	Notes			Allowance		Item Cost
V	Prep ROW				6%	-	18,231
,	Traffic Control	None Anticipated			0%		-
N,	Pavement Markings/Markers				3%		9,116
V	Roadway Drainage	Standard Internal Sys	tem		30%		91,157
V	Illumination				6%	\$	18,231
	Special Drainage Structures	None Anticipated			0%	\$	-
V	Water	Minor Adjustments			6%	\$	18,231
$\checkmark$	Sewer	Minor Adjustments			4%	\$	12,154
V	Establish Turf / Erosion Control				3%	\$	9,116
V	Basic Landscaping				3%	\$	9,116
	Other:				\$0	\$	-
**Allov	vances based on % of Paving Construction Cos	t Subtotal		Allowa	nce Subtotal:	\$	185,352
					nce Subtotal:		489,207
		Constru	ction Conti				48,921
			Constru	ction C	ost TOTAL:	\$	539,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 539,000
Engineering/Survey/Testing:		18%	\$ 97,020
Mobilization		6%	\$ 32,340
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 161,700
	Impact Fee Pro	ject Cost TOTAL:	\$ 830,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Kimley-Horn and Associates, Inc. updated:

<b>Project Inform</b>	mation:	Description:	Project No.	1-V
Name:	HL Collector #2	This project cons	sists of the construct	tion of a new 2-
Limits:	HL Collector #2	lane undivided c	ollector.	

Impact Fee Type: HL-C2

**Ultimate Class:** Healthy Living Collector-2

Length (If): 1,160 Service Area(s):

Roa	dway Construction Cost Projection					The same	
No.	Item Description	Quantity	Unit	Un	it Price		Item Cost
113	Unclassified Street Excavation	2,707	су	\$	12.00	\$	32,480
213	6" Lime Stabilization (with Lime @ 27#/sy)	5,284	sy	\$	4.00	\$	21,138
313	8" Concrete Pavement w/ 6" Curb	5,027	sy	\$	38.00	\$	191,013
413	4" Topsoil	0	sy	\$	-	\$	-
513	11' Concrete Sidewalk	25,520	sf	\$	4.00	\$	102,080
613	Turn Lanes and Median Openings	0	sy	\$	-	\$	-
		D		2 4	0-1-4-4-1	•	040 744

Paving Construction Cost Subtotal: \$ 346,711

Maio	or Construction Component Allowa	nces**:			Charles Allegate All
Baladorbust Jib	Item Description	Notes	Allowance	- CONTRACTOR	Item Cost
V	Prep ROW		6%	\$	20,803
	Traffic Control	None Anticipated	0%	\$	-
V	Pavement Markings/Markers		3%	\$	10,401
V	Roadway Drainage	Standard Internal System	30%	\$	104,013
V	Illumination		6%	\$	20,803
	Special Drainage Structures	None Anticipated	0%	\$	-
V	Water	Minor Adjustments	6%	\$	20,803
V	Sewer	Minor Adjustments	4%	\$	13,868
V	Establish Turf / Erosion Control		3%	\$	10,401
V	Basic Landscaping		3%	\$	10,401
	Other:		\$0	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal Allow	/ance Subtotal:	\$	211,494
		Paving and Allow	/ance Subtotal:	\$	558,205
		Construction Contingency	<b>/</b> : 10%	\$	55,820
		Construction	Cost TOTAL:	\$	615,000

Notes:	Allowance	-	tem Cost
	-	\$	615,000
	18%	\$	110,700
	6%	\$	36,900
New Roadway Alignment	30%	\$	184,500
Impact Foo Pro	inct Cost TOTAL:	¢	947,000
	New Roadway Alignment	- 18% 6% New Roadway Alignment 30%	- \$ 18% \$ 6% \$

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

#### City of Rowlett - 2016 Roadway Impact Fee Minor Update

Capital Improvements Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area 2

				Percent in		Project Cost in
<u>#</u>	Class	<u>Project</u>	<u>Limits</u>	Service Area	Project Cost	Service Area
2-A	В	Main St.	Lakeview Pkwy. to 310' W. of Rowlett Rd.	100%	\$ 5,181,000	\$ 5,181,000
2-B	В	Future Main-Century Connection	Main St. to Century Dr.	100%	\$ 942,000	\$ 942,000
2-C	A (1/3)	Miller Rd. (1)	Dexham Rd. to Rowlett Rd.	100%	\$ 5,128,000	\$ 5,128,000
2-D	A (1/3)	Miller Rd. (2)	Rowlett Rd. to PGBT SBFR	100%	\$ 2,433,000	\$ 2,433,000
2-E	A (1/3)	Miller Rd. (3)	PGBT NBFR to 360' E. of PGBT NBFR	100%	\$ 181,000	\$ 181,000
2-F	Α	Miller Rd. (4)	360' E. of PGBT NBFR to Lake Ray Hubbard Bridge	100%	\$ 1,540,000	\$ 1,540,000
2-G	Α	Miller Rd. (5)	Lake Ray Hubbard Bridge to 372' W. of Dalrock Rd.	100%	\$ 5,115,000	\$ 5,115,000
2-H	B+	Chiesa Rd. (2)	360' S. of Lakeview Pkwy. to Miller Rd.	100%	\$ 6,194,000	\$ 6,194,000
2-1	B+	Chiesa Rd. (3)	Miller Rd. to Dalrock Rd.	100%	\$ 5,878,000	\$ 5,878,000
2-J	A (1/3)	Dalrock Rd. (4)	Lakeview Pkwy. to Miller Rd.	100%	\$ 4,707,000	\$ 4,707,000
2-K	A (1/3)	Dalrock Rd. (5)	Miller Rd. to IH-30 WBFR	100%	\$ 2,577,000	\$ 2,577,000
1-T, 2-L	A+ (1/3)	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	50%	\$ 2,108,000	\$ 1,054,000
2-M	D-C	Melcer Dr.	Melcer Dr. Extension	100%	\$ 741,000	\$ 741,000
2-N	D-C	Martin Dr. (1)	Main St. to South End	100%	\$ 508,000	\$ 508,000
2-0	С	Martin Dr. (2)	Melcer Dr. to Main St.	100%	\$ 1,294,932	
2-P	A (1/3)	Rowlett Rd.	Century Dr. to Kyle Rd.	100%	\$ 3,792,336	\$ 3,792,336
2-Q	SG-C5	SG Collector #1	SG Collector #1	100%	\$ 1,184,000	\$ 1,184,000
2-R	SG-C5	SG Collector #2	SG Collector #2	100%	\$ 310,000	\$ 310,000
2-S	SG-C5	SG Collector #3	SG Collector #3	100%	\$ 698,000	\$ 698,000
2-T	SG-C4	SG Collector #4	SG Collector #4	100%	\$ 633,000	\$ 633,000
2-U	SG-A+	SG Major Thoroughfare	SG Major Thoroughfare	100%	\$ 450,000	\$ 450,000
2-V	HL-C1	HL Collector #3	HL Collector #3	100%	\$ 590,000	\$ 590,000
2-W	BS-A	Bayside Arterial	IH-30 WBFR to Bayside Boulevard	100%	\$ 3,747,000	\$ 3,747,000
Intersec	tion Im	provements				
1		Intersection Improvement	Dalrock Rd. at Lakeview Pkwy.	50%	\$ 1,250,000	\$ 625,000
2		Intersection Improvement	Dalrock Rd. at Chiesa Rd.	100%	\$ 750,000	
3		Signal Installation	Dexham Rd. at Miller Rd.	100%	\$ 250,000	\$ 250,000
			TOTA	L	\$ 54,435,268	

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett. The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

#### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Kimley-Horn and Associates, Inc. updated: 6/21/2016

<b>Project Informa</b>	ation:	Description:	Project No	. 2-A
Name:	Main St.		This project consists	of the
Limits: Lakeview Pkwy. to 310' W. of		Rd.	reconstruction of Ma	in St. as a 4-lane
Impact Fee Type:	В		undivided secondary	thoroughfare.
<b>Ultimate Class:</b>	Secondary Thoroughfare			
Length (If):	3,058			
Service Area(s)	2			

No.						it Price		Item Cost
106	Unclassified Street Excavation	0	8,155	су	\$	12.00	\$	97,856
206	06 6" Lime Stabilization (with Lime @ 27#/sy) 15,970 s			sy	\$	4.00	\$	63,878
306	8" Concrete Pavement w/ 6" Curb		15,290	sy	\$	46.00	\$	703,340
406	4" Topsoil		4,757	sy	\$	5.00	\$	23,784
506	4' Concrete Sidewalk		24,464	sf	\$	4.00	\$	97,856
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	
		Pa	ving Consti	uction C	Cost S	ubtotal:	\$	986,715
		THE STATE OF THE S						
Majo	or Construction Component Allowa							
<u></u>	Item Description	Notes			Allo	wance	_	Item Cost
V	Prep ROW					6%		59,203
V	Traffic Control	Construction Phase	Traffic Control			5%	0.0	49,336
V	Pavement Markings/Markers					3%		29,601
V	Roadway Drainage	Standard Internal Sys	stem			30%	733	296,014
V	Illumination					6%	\$	59,203
V	Special Drainage Structures	Crosses Long Branch	h Creek		\$	250,000	\$	250,000
$\checkmark$	Water	Minor Adjustments				6%	\$	59,203
$\checkmark$	Sewer	Minor Adjustments				4%	\$	39,469
$\vee$	Establish Turf / Erosion Control					3%	\$	29,601
$\vee$	Basic Landscaping					3%	\$	29,601
$\checkmark$	Other:	Railroad Crossing			\$1	,500,000	\$	1,500,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce S	ubtotal:	\$	2,401,232
			Paving and					3,387,946
1		Constru	iction Conti	-		10%		338,795
			Construc	ction C	ost 1	OTAL:	\$	3,727,000

Item Description	Notes:	Allowance	1	Item Cost
Construction:		-	\$	3,727,000
Engineering/Survey/Testing:		18%	\$	670,860
Mobilization		6%	\$	223,620
Previous City contribution				
Other				
ROW/Easement Acquisition:	Existing Alignment	15%	\$	559,050

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description:	Project No.	2-B			
Name:	Future Main-Century Connection						
Limits:	Main St. to Century Dr.	lane undivided secondary thoroughfare.					
Impact Fee Type:	В						
<b>Ultimate Class:</b>	Secondary Thoroughfare						
Length (If):	588						
Service Area(s):	2						

No.	Item Description		Quantity	Unit	Un	it Price	- 13	Item Cost
106	Unclassified Street Excavation		1,568	су	\$	12.00	\$	18,816
206	6" Lime Stabilization (with Lime @ 27#/sy) 3,071			sy	\$	4.00	\$	12,283
306	8" Concrete Pavement w/ 6" Curb		2,940	sy	\$	46.00	\$	135,240
406	4" Topsoil		915	sy	\$	5.00	\$	4,573
506	4' Concrete Sidewalk		4,704	sf	\$	4.00	\$	18,816
606	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	aving Constr	uction (	Cost S	Subtotal:	\$	189,728
Majo	or Construction Component Allow	ances**:						
	Item Description	Notes			Allo	owance		Item Cost
V	Prep ROW					6%	\$	11,384
	Traffic Control	None Anticipated				0%	\$	-
V	Pavement Markings/Markers					3%	\$	5,692
$\checkmark$	Roadway Drainage	Standard Internal Sy	stem			30%	\$	56,918
V	Illumination					6%	\$	11,384
$\checkmark$	Special Drainage Structures	Crosses Long Brand	ch Creek		\$	250,000	\$	250,000
V	Water	Minor Adjustments				6%	\$	11.384
$\checkmark$	Sewer	Minor Adjustments				4%	\$	7,589
$\checkmark$	Establish Turf / Erosion Control					3%	\$	5,692
$\checkmark$	Basic Landscaping					3%	\$	5,692
	Other:					\$0	\$	-
**Allo	wances based on % of Paving Construction (	Cost Subtotal		Allowa	nce S	subtotal:	\$	365,734
			Paving and	Allowa	nce S	ubtotal:	\$	555,462

Item Description	Notes:	Allowance	Item Cost
Construction:	The second secon	-	\$ 612,000
Engineering/Survey/Testing:		18%	\$ 110,160
Mobilization		6%	\$ 36,720
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 183,600

Construction Cost TOTAL: \$

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The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

612,000

## 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ation:	Description:	Project No.	2-C
Name: Limits: Impact Fee Type: Ultimate Class: Length (If): Service Area(s):	Miller Rd. (1) Dexham Rd. to Rowlett Rd. A (1/3) Major Thoroughfare 5,375 2	additional lanes future 6-lane ma	sists of the construction the existing medi- jor thoroughfare. Th 660 for the 2008 con	an of this is project

No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
104	Unclassified Street Excavation		11,944	су	\$	12.00	\$ 143,333
204	6" Lime Stabilization (with Lime @ :	27#/sy)	23,292	sy	\$	4.00	\$ 93,167
304	10" Concrete Pavement w/ 6" Curb		22,097	sy	\$	46.00	\$ 1,016,472
404	4" Topsoil		6,868	sy	\$	5.00	\$ 34,340
504	4' Concrete Sidewalk		43,000	sf	\$	4.00	\$ 172,000
604	Turn Lanes and Median Openings		3,886	sy	\$	46.00	\$ 178,741
Paving Construction Cost Subtotal:							\$ 1,638,054
Maio	or Construction Component Allow	ances**:					
lobskeltone*_Alto	Item Description	Notes			Allo	owance	Item Cost
V	Prep ROW					6%	\$ 98,283
V	Traffic Control	Construction Phase	Traffic Control			5%	\$ 81,903
V	Pavement Markings/Markers					3%	\$ 49,142
	Roadway Drainage	None Anticipated			1	0%	\$ -
	Illumination					0%	\$ -
	Special Drainage Structures	None Anticipated				0%	\$ -
	Water	None Anticipated				0%	\$ -
	Sewer	None Anticipated				0%	\$ -
V	Establish Turf / Erosion Control					3%	\$ 49,142
$\checkmark$	Basic Landscaping					3%	\$ 49,142
	Other:					\$0	\$ -
**Allo	wances based on % of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$ 327,611
			Paving and	d Allowa	nce S	Subtotal:	\$ 1,965,664
		Constru	ection Conti			10%	\$ 196,566
Construction Cost TOTAL:							\$ 2,163,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,163,000
Engineering/Survey/Testing:		18%	\$ 389,340
Mobilization		6%	\$ 129,780
Previous City contribution	2008 Miller Rd. Phase 1		\$ 2,445,660
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$ <u> </u>
	Impact Fee Projec	t Cost TOTAL:	\$ 5,128,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

# 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Description:	Project No.	2-D
This project cons additional lanes i 6-lane major thor 2004 Dallas Coun Kirby Rd. The tota	ists of the construct in the existing medi- coughfare. This project ty project from Sky al project cost was	an of the future ect includes a line Rd. to \$2,898,410 of
	This project cons additional lanes in 6-lane major thor 2004 Dallas Coun Kirby Rd. The tota	Description: Project No.  This project consists of the construct additional lanes in the existing medi 6-lane major thoroughfare. This project 2004 Dallas County project from Sky Kirby Rd. The total project cost was which the City contributed \$393,002.

Por	adway Construction Cost Pro	vication					
	Item Description	gection	Quantity	Unit	Un	it Price	Item Cost
104	Unclassified Street Excavation		9,084	су	\$	12.00	\$ 109,013
204	6" Lime Stabilization (with Lime @ 2	27#/sy)	17,715	sy	\$	4.00	\$ 70,859
304	10" Concrete Pavement w/ 6" Curb	• •	16,806	sy	\$	46.00	\$ 773,086
404	4" Topsoil		5,224	sy	\$	5.00	\$ 26,118
504	4' Concrete Sidewalk		32,704	sf	\$	4.00	\$ 130,816
604	Turn Lanes and Median Openings		2,955	sy	\$	46.00	\$ 135,943
	Paving Construction Cost Subtotal:						\$ 1,245,835
Majo	or Construction Component Allow	ances**:	HUNTER OF				推議等計劃一
	Item Description	Notes			All	owance	Item Cost
V	Prep ROW					6%	\$ 74,750
V	Traffic Control	Construction Phase	Traffic Control			5%	\$ 62,292
V	Pavement Markings/Markers	1				3%	\$ 37,375
	Roadway Drainage	None Anticipated				0%	\$ -
l	Illumination					0%	\$ -
	Special Drainage Structures	None Anticipated				0%	\$ -
	Water	None Anticipated				0%	\$ -
	Sewer	None Anticipated				0%	\$ -
V	Establish Turf / Erosion Control					3%	\$ 37,375
$\checkmark$	Basic Landscaping					3%	\$ 37,375
_	Other:					\$0	\$ _
**Allo	wances based on % of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$ 249,167
							š .
			Paving and	Allowa	nce S	Subtotal:	\$ 1,495,002
		Constru	uction Conti	_		10%	\$ 149,500
	*	×	Construc	ction C	ost	TOTAL:	\$ 1,645,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,645,000
Engineering/Survey/Testing:		18%	\$ 296,100
Mobilization		6%	\$ 98,700
Previous City contribution	2004 - Miller Rd.; Skyline Rd. to Kirby Rd.		\$ 393,002
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$ -
•	Impact Fee Project (	Cost TOTAL:	\$ 2,433,00

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description:		Project No.	2-E			
Name:	Б.	This project consists of the						
Limits: Impact Fee Type:	PGBT NBFR to 360' E. of PGBT NBF A (1/3)	ĸ	construction of two additional lan the existing median of this future					
Ultimate Class:	Major Thoroughfare		major thor		io rataro o rano			
Length (If):	361							
Service Area(s):	2							

	Item Description		Quantity	Unit	Un	it Price		Item Cost
104	Unclassified Street Excavation		802	су	\$	12.00	\$	9,627
204	6" Lime Stabilization (with Lime @	27#/sy)	1,564	sy	\$	4.00	\$	6,257
304	10" Concrete Pavement w/ 6" Curl	)	1,484	sy	\$	46.00	\$	68,269
404	4" Topsoil		461	sy	\$	5.00	\$	2,306
504	4' Concrete Sidewalk		2,888	sf	\$	4.00	\$	11,552
604	Turn Lanes and Median Openings		261	sy	\$	46.00	\$	12,005
Paving Construction Cost Subtotal:							\$	110,016
Majo	or Construction Component Allov							
	Item Description	Notes			Alle	owance		Item Cost
V	Prep ROW					6%		6,601
V	Traffic Control	Construction Phase	Traffic Control			5%	\$	5,501
$\checkmark$	Pavement Markings/Markers					3%	\$	3,300
	Roadway Drainage	None Anticipated				0%	\$	
	Illumination					0%	\$	
	Special Drainage Structures	None Anticipated			l	0%	\$	
	Water	None Anticipated				0%	\$	
	Sewer	None Anticipated				0%	\$	
$\checkmark$	Establish Turf / Erosion Control					3%	\$	3,300
$\checkmark$	Basic Landscaping					3%	\$	3,300
	Other:					\$0	\$	
**Allov	vances based on % of Paving Construction	Cost Subtotal		Allowa	nce S	Subtotal:	\$	22,003
Paving and Allowance Subtotal:						\$	132,020	
		Construction Contingency: 10%						13,202

<b>\$</b>	<b>146,000</b> 26,280
	26,280
_	
\$	8,760
\$	-
	\$

**Construction Cost TOTAL:** 

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146,000

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:	Description:	Project No.	2-F
		,	

Name: Miller

Miller Rd. (4) 360' E. of PGBT NBFR to Lake Ray

This project consists of the reconstruction of Miller

Rd. as a 4-lane divided secondary thoroughfare.

Limits: Hubbard Bridge

Impact Fee Type: B+

Ultimate Class:

Secondary Thoroughfare

Length (If):

1,749

Service Area(s): 2

Roa	adway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Un	it Price	Item Cost
105	Unclassified Street Excavation	5,441	су	\$	12.00	\$ 65,296
205	6" Lime Stabilization (with Lime @ 27#/sy)	10,494	sy	\$	4.00	\$ 41,976
305	8" Concrete Pavement w/ 6" Curb	9,717	sy	\$	38.00	\$ 369,233
405	4" Topsoil	5,247	sy	\$	5.00	\$ 26,235
505	4' Concrete Sidewalk	13,992	sf	\$	4.00	\$ 55,968
605	Turn Lanes and Median Openings	1,264	sy	\$	38.00	\$ 48,046
	P:	ving Const	uction (	net !	Subtotal	\$ 606 755

	Item Description	Notes	Allowance		Item Cost
V	Prep ROW		6%	\$	36,405
V	Traffic Control	Construction Phase Traffic Control	5%	\$	30,338
$\checkmark$	Pavement Markings/Markers	T.	3%	\$	18,203
V	Roadway Drainage	Standard Internal System	30%	\$	182,026
V	Illumination		6%	\$	36,405
V	Special Drainage Structures	2,975' Lake Ray Hubbard Crossing	?	?	
V	Water	Minor Adjustments	6%	\$	36,405
$\checkmark$	Sewer	Minor Adjustments	4%	\$	24,270
V	Establish Turf / Erosion Control		3%	\$	18,203
V	Basic Landscaping		3%	\$	18,203
	Other:	Bridge Overpass	\$0	\$	
**Allo	wances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	400,458
		Paving and Allowa			1,007,213
		Construction Contingency:	10%	\$	100,721
		Construction C	ost TOTAL .	\$	1,108,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	1,108,000
Engineering/Survey/Testing:		18%	\$	199,440
Mobilization		6%	\$	66,480
Previous City contribution			81/6	
Other				
ROW/Easement Acquisition:	Existing Alignment	15%	\$	166,200
	Impact Fee P	roject Cost TOTAL:	\$	1,540,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

## 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/21/2016 updated:

Project Info	ormation:	Description:	Project No.	2-G
Name:	Miller Rd. (5) Lake Ray Hubbard Bridge to 372' W.		sists of the reconstr	
Limits:	of Dalrock Rd.	rtar de a 1 ianie a	irriada doddinaary ar	orouginare.

Impact Fee Type:

**Ultimate Class:** Secondary Thoroughfare

Length (If): 5,374 Service Area(s):

Roa	dway Construction Cost Projection						
No.	Item Description	Quantity	Unit	Un	it Price		Item Cost
105	Unclassified Street Excavation	16,719	су	\$	12.00	\$	200,629
205	6" Lime Stabilization (with Lime @ 27#/sy)	32,244	sy	\$	4.00	\$	128,976
305	8" Concrete Pavement w/ 6" Curb	29,856	sy	\$	38.00	\$	1,134,511
405	4" Topsoil	16,122	sy	\$	5.00	\$	80,610
505	4' Concrete Sidewalk	42,992	sf	\$	4.00	\$	171,968
605	Turn Lanes and Median Openings	3 885	CV	•	38 00	•	147 628

Paving Construction Cost Subtotal: \$ 1,864,323

		•	1,004,020		
Maj	or Construction Component Allow	ances**:			and a second
	Item Description	Notes	Allowance		Item Cost
V	Prep ROW		6%	\$	111,859
√.	Traffic Control	Construction Phase Traffic Control	5%	\$	93,216
√.	Pavement Markings/Markers		3%	\$	55,930
√.	Roadway Drainage	Standard Internal System	30%	\$	559,297
V	Illumination		6%	\$	111,859
V	Special Drainage Structures	1,115' Lake Ray Hubbard Crossing	?	?	4
$\checkmark$	Water	Minor Adjustments	6%	\$	111,859
V	Sewer	Minor Adjustments	4%	\$	74,573
V	Establish Turf / Erosion Control		3%	\$	55,930
V	Basic Landscaping		3%	\$	55,930
V	Other:	Railroad Crossing	\$250,000	\$	250,000
**Allo	wances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	1,480,453
		Paving and Allowa		100	3,344,776
		Construction Contingency:	10%	\$	334,478
		Construction C	ost TOTAL:	\$	3,680,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,680,000
Engineering/Survey/Testing:		18%	\$ 662,400
Mobilization		6%	\$ 220.800
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 552,000
	Impact Fee P	roject Cost TOTAL:	\$ 5,115,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

#### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/21/2016 updated:

<b>Project Informa</b>	Project Information:		Project No.	2-H		
Name: Limits:	Chiesa Rd. (2) 360' S. of Lakeview Pkwy. to Miller		sists of the reconstru			
Impact Fee Type: B+		Chiesa Rd. as a 4-lane divided secondary thoroughfare.				
Ultimate Class:	Secondary Thoroughfare	thoroughnare.				
Length (If):	6,600					
Service Area(s):	2					

	Idway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Un	it Price		Item Cost
105	Unclassified Street Excavation	20,533 cy \$ 12.00					\$	246,400
205	6" Lime Stabilization (with Lime @ 2	7#/sy)	39,600	sy	\$	4.00	\$	158,400
	8" Concrete Pavement w/ 6" Curb		36,667	sy	\$	38.00	\$	1,393,333
405	4" Topsoil		19,800	sy	\$	5.00	\$	99,000
	4' Concrete Sidewalk		52,800	sf	\$	4.00	\$	211,200
605	Turn Lanes and Median Openings		4,771	sy	\$	38.00	\$	181,308
		Pa	aving Constr	uction (	Cost S	Subtotal:	\$	2,289,641
					100 T CO 100	Nation to the same of the same	and results to the	
Majo	r Construction Component Allowa							
	Item Description	Notes			Allo	wance		Item Cost
V	Prep ROW					6%	\$	137,378
V	Traffic Control	Construction Phase	Traffic Control			5%	\$	114,482
V	Pavement Markings/Markers					3%	\$	68,689
<b>√</b>	Roadway Drainage	Standard Internal Sy	rstem			30%	\$	686,892
V	Illumination					6%	\$	137,378
√.	Special Drainage Structures	Minor Stream Crossi	ing		\$	250,000	\$	250,000
V	Water	Minor Adjustments				6%	\$	137,378
V	Sewer	Minor Adjustments				4%	\$	91,586
V	Establish Turf / Erosion Control					3%	\$	68,689
V	Basic Landscaping	2				3%	\$	68,689
	Other:					\$0	\$	
**Allov	*Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						\$	1,761,163
					2			3 7
		·	Paving and			ubtotal:	\$	4,050,804
		Constru	uction Conti	-		10%	\$	405,080
	2.6		Construc	tion C	ost T	OTAL:	\$	4,456,000

Item Description	Notes:	Allowance	Item Cost
Construction:	a surely displace as year as year	_	\$ 4,456,000
Engineering/Survey/Testing:		18%	\$ 802,080
Mobilization		6%	\$ 267,360
Previous City contribution			,
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 668,400

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

**Roadway Construction Cost Projection** 

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

<b>Project Informa</b>	ition:	Description:	Project No.	2-1
Name: Limits:	Chiesa Rd. (3) Miller Rd. to Dalrock Rd.		sists of the reconstru 4-lane divided secon	
Impact Fee Type:	Impact Fee Type: B+			
Ultimate Class:	Secondary Thoroughfare			
Length (If):	6,414			
Service Area(s): 2				

No.	Item Description		Quantity	Unit	Un	it Price	director.	Item Cost
105	Unclassified Street Excavation		19,955	су	\$	12.00	\$	239,456
	6" Lime Stabilization (with Lime @	27#/sy) 38,484 sy \$			\$	4.00	\$	153,936
	8" Concrete Pavement w/ 6" Curb	• /	35,633	sy	\$	38.00	\$	1,354,067
405	4" Topsoil		19,242	sy	\$	5.00	\$	96,210
	4' Concrete Sidewalk		51,312	sf	\$	4.00	\$	205,248
605	Turn Lanes and Median Openings		4,637	sy	\$	38.00	\$	176,198
	·	Pa	ving Consti	ruction (	Cost S		\$	2,225,115
TYTE CE		Charles .			Ment comb		dresistros.	
Majo	or Construction Component Allow							
	Item Description	Notes			Allo	wance		Item Cost
V	Prep ROW					6%	\$	133,507
V	Traffic Control	Construction Phase	Traffic Control			5%	\$	111,256
V	Pavement Markings/Markers					3%	\$	66,753
√.	Roadway Drainage	Standard Internal Sy	stem			30%	\$	667,534
V	Illumination					6%	\$	133,507
$\checkmark$	Special Drainage Structures	Minor Stream Crossi	ng		\$	150,000	\$	150,000
$\checkmark$	Water	Minor Adjustments				6%	\$	133,507
$\checkmark$	Sewer	Minor Adjustments				4%	\$	89,005
$\checkmark$	Establish Turf / Erosion Control					3%	\$	66,753
V	Basic Landscaping					3%	\$	66,753
	Other:					\$0	\$	_
**Allo							\$	1,618,576
			Paving and	d Allowa	nce S	ubtotal:	\$	3,843,690
		Constru	ction Conti			10%	\$	384,369
			Construc	-			\$	4.229.000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 4,229,000
Engineering/Survey/Testing:		18%	\$ 761,220
Mobilization		6%	\$ 253,740
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	15%	\$ 634,350
	Impact Fee P	roject Cost TOTAL:	\$ 5,878,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

<b>Project Informa</b>	Project Information:		Project No.	2-J			
Name: Limits:	Dalrock Rd. (4) Lakeview Pkwy, to Miller Rd.	g 교육 이 사람들은 경기를 가지 않는데 보다면 보다면 보다면 하는데 없는데 없다면 다른데 없다.	sists of the construc				
Impact Fee Type: A (1/3)		additional lanes in the existing median of future 6-lane major thoroughfare.					
Ultimate Class:	Major Thoroughfare	rataro o fario ma	jor allorougillulo.				
Length (If):	9,435						
Service Area(s): 2							

Roa	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Uni	t Price	Item Cost
104	Unclassified Street Excavation	20,967 cy \$ 12.00			12.00	\$ 251,600	
204	6" Lime Stabilization (with Lime @ 2	27#/sy)	40,885	sy	\$	4.00	\$ 163,540
304	10" Concrete Pavement w/ 6" Curb		38,788	sy	\$	46.00	\$ 1,784,263
404	4" Topsoil		12,056	sy	\$	5.00	\$ 60,279
504	4' Concrete Sidewalk		75,480	sf	\$	4.00	\$ 301,920
604	Turn Lanes and Median Openings		6,821	sy	\$	46.00	\$ 313,753
		Pa	ving Consti	uction C	ost S	ubtotal:	\$ 2,875,356
Majo	r Construction Component Allowa	ances**:					
	Item Description	Notes			Allo	wance	Item Cost
	Prep ROW					6%	\$ 172,521
V	Traffic Control	Construction Phase	Traffic Control			5%	\$ 143,768
$\checkmark$	Pavement Markings/Markers					3%	\$ 86,261
	Roadway Drainage	None Anticipated				0%	\$ _
l	Illumination					0%	\$ -
	Special Drainage Structures	None Anticipated				0%	\$ -
	Water	None Anticipated				0%	\$ -
	Sewer	None Anticipated				0%	\$ _
V	Establish Turf / Erosion Control					3%	\$ 86,261
$\checkmark$	Basic Landscaping					3%	\$ 86,261
	Other:					\$0	\$ -
**Allo	**Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal:					\$ 575,071	
			Paving and	Allowa	nce S	ubtotal:	\$ 3,450,427
l	Construction Contingency: 10%					\$ 345,043	

Item Description	Notes:	Allowance	Item Cost		
Construction:		-	\$	3,796,000	
Engineering/Survey/Testing:		18%	\$	683,280	
Mobilization		6%	\$	227,760	
Previous City contribution					
Other					
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$		
	Impact Fee Project	t Cost TOTAL:	\$	4,707,000	

Construction Cost TOTAL: \$

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

3,796,000

## 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description:	Project No.	2-K				
Name: Dalrock Rd. (5) Limits: Miller Rd. to IH-30 WBFR Impact Fee Type: A (1/3)		This project consists of the construction of two additional lanes in the existing median of this future 6-lane major thoroughfare. This project was						
Ultimate Class: Length (If): Service Area(s):	Major Thoroughfare 5,164 2	전 뉴스트 및 이야기는 전쟁으로 하는 이번 이번 보고, 제가 되어 있어 때문에 발표하면 하지만 없었다. 그리지 때문 특별	H-30 WBFR in the 20					

KOS	idway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
104	Unclassified Street Excavation		11,476	су	\$	12.00	\$ 137,707
204	6" Lime Stabilization (with Lime @ 2	?7#/sy)	22,377	sy	\$	4.00	\$ 89,509
304	10" Concrete Pavement w/ 6" Curb		21,230	sy	\$	46.00	\$ 976,570
404	4" Topsoil		6,598	sy	\$	5.00	\$ 32,992
504	4' Concrete Sidewalk		41,312	sf	\$	4.00	\$ 165,248
604	Turn Lanes and Median Openings		3,733	sy	\$	46.00	\$ 171,725
		Pa	ving Constr	ruction C	Cost	Subtotal:	\$ 1,573,751
Majo	or Construction Component Allows						or will a section of
	Item Description	Notes			Alle	owance	Item Cost
V	Prep ROW					6%	\$ 94,425
\\	Traffic Control	Construction Phase	Traffic Control			5%	\$ 78,688
√	Pavement Markings/Markers					3%	\$ 47,213
l	Roadway Drainage	None Anticipated				0%	\$ -
l	Illumination					0%	\$ 7
ı	Special Drainage Structures	None Anticipated				0%	\$ -
ı	Water	None Anticipated				0%	\$ -
Ι.,	Sewer	None Anticipated				0%	\$ -
\\	Establish Turf / Erosion Control	· ·			=	3%	\$ 47,213
√	Basic Landscaping					3%	\$ 47,213
	Other:					\$0	\$ 
**Allo	vances based on % of Paving Construction Co	ost Subtotal		Allowa	nce S	Subtotal:	\$ 314,750
			Paving and				1,888,501
		Constru	ction Conti	_		10%	\$ 188,850
			Construc	ction C	ost 7	TOTAL:	\$ 2,078,000

Item Description	Notes:	Allowance	Item Cost		
Construction:		-	\$	2,078,000	
Engineering/Survey/Testing:		18%	\$	374,040	
Mobilization		6%	\$	124,680	
Previous City contribution					
Other	AN TRANSPORT TO THE STATE OF TH				
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$		
	\$	2,577,00			

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

Service Area(s):

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

1, 2

**Roadway Construction Cost Projection** 

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:		mation: Description:		1-T, 2-L
Name: Limits:	Lakeview Pkwy. Dalrock Rd. to E. City Limit	보다 하다 다시 하는 사이에는 다른 나를 하는 것이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	sists of the construing the	
Impact Fee Type:	A+ (1/3)		in the existing med jor thoroughfare.	nan or this
Ultimate Class:	Major Thoroughfare			
Length (If):	4,225			

	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation		9,389	су	\$ 12.00	\$	112,667
202	6" Lime Stabilization (with Lime @ 2	7#/sy)	18,308	sy	\$ 4.00	\$	73,233
302	10" Concrete Pavement w/ 6" Curb		17,369	sy	\$ 46.00	\$	798,994
402	4" Topsoil		5,399	sy	\$ 5.00	\$	26,993
502	4' Concrete Sidewalk		33,800	sf	\$ 4.00	\$	135,200
602	Turn Lanes and Median Openings		3,054	sy	\$ 46.00	\$	140,499
	Paving Construction Cost Sub		ost Subtotal	\$	1,287,586		
Majo	or Construction Component Allowa	ınces**:					
	Item Description	Notes			Allowance	Π	Item Cost
$\sqrt{}$	Prep ROW				6%	\$	77,255
V	Traffic Control	Construction Phase	Traffic Control		5%	\$	64,379
√	Pavement Markings/Markers				3%	\$	38,628
l	Roadway Drainage	None Anticipated			0%	\$	-
	Illumination				0%	\$	-
	Special Drainage Structures	None Anticipated			0%	\$	-
	Water	None Anticipated			0%	\$	
	Sewer	None Anticipated			0%	\$	
$\checkmark$	Establish Turf / Erosion Control				3%	\$	38,628
$\checkmark$	Basic Landscaping				3%	\$	38,628
	Other:				\$0	\$	-
**Allo	vances based on % of Paving Construction Co	st Subtotal		Allowa	nce Subtotal:	_	257,517
			Paving and	Allowa	nce Subtotal:	\$	1,545,104
		Constru	ction Conti				154,510

Item Description	Notes:	Allowance	Item Cost		
Construction:		-	\$	1,700,000	
Engineering/Survey/Testing:		18%	\$	306,000	
Mobilization		6%	\$	102,000	
Previous City contribution					
Other					
ROW/Easement Acquisition:	No ROW Acquisition Costs included	0%	\$	<u> </u>	
	Impact Fee Project	t Cost TOTAL:	\$	2,108,000	

**Construction Cost TOTAL:** 

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

1,700,000

## 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:		Description:	Project No.	2-M
Name:	Melcer Dr.	This project cons	sists of the 2-lane ur	ndivided
Limits:	Melcer Dr. Extension	extension of Mel	cer Dr.	
Impact Fee Type:	D-C			
<b>Ultimate Class:</b>	Downtown Collector			
Length (If):	1,052			
Service Area(s):	2			

KO	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Uni	it Price		Item Cost
111	Unclassified Street Excavation		2,455	су	\$	12.00	\$	29,456
211	6" Lime Stabilization (with Lime @ 2	7#/sy)	4,792	sy	\$	4.00	\$	19,170
	8" Concrete Pavement w/ 6" Curb		4,559	sy	\$	38.00	\$	173,229
411	4" Topsoil		1,520	sy	\$	5.00	\$	7,598
	10,000		sf	\$	4.00	\$	42,080	
611	11 Turn Lanes and Median Openings 0 sy		sy	\$	-	\$	-	
		Pa	ving Consti	ruction (	Cost S	Subtotal:	\$	271,533
							NAME OF THE OWNER, OWNE	
Majo	or Construction Component Allowa							
	Item Description	Notes			Allo	wance		Item Cost
$\checkmark$	Prep ROW					6%	\$	16,292
١.	Traffic Control	None Anticipated				0%	\$	-
V	Pavement Markings/Markers					3%	100	8,146
V	Roadway Drainage	Standard Internal Sys	stem			30%	\$	81,460
√	Illumination					6%	\$	16,292
	Special Drainage Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	Minor Adjustments				6%	\$	16,292
V	Sewer	Minor Adjustments				4%	\$	10,861
V	Establish Turf / Erosion Control	1				3%	\$	8,146
√	Basic Landscaping	1				3%	\$	8,146
	Other:					\$0	\$	_
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce S	Subtotal:	\$	165,635
			Paving and					437,168
		Constru	iction Conti			10%		43,717
			Construc	ction C	ost T	OTAL:	\$	481,000

Item Description	Notes:	Allowance	ŀ	tem Cost
Construction:	AND THE PROPERTY OF THE PROPER	-	\$	481,000
Engineering/Survey/Testing:	All and the second seco	18%	\$	86,580
Mobilization		6%	\$	28,860
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	144,300

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:		Description:	Project No.	2-N		
Name: Martin Dr. (1)		This project consists of the 2-lane undivided				
Limits:	Main St. to South End	extension of Martin Dr.				
Impact Fee Type:	D-C					
<b>Ultimate Class:</b>	Downtown Collector					
Length (If):	720					
Service Area(s):	2					

Roa	adway Construction Cost Pro	jection						
No.	Item Description	1	Quantity	Unit	Uni	t Price		Item Cost
111	Unclassified Street Excavation		1,680	су	\$	12.00	\$	20,160
211	6" Lime Stabilization (with Lime @ 2	?7#/sy)	3,280	sy	\$	4.00	\$	13,120
311	8" Concrete Pavement w/ 6" Curb		3,120	sy	\$	38.00	\$	118,560
411	4" Topsoil		1,040	sy	\$	5.00	\$	5,200
	5' Concrete Sidewalk		7,200	sf	\$	4.00	\$	28,800
611	Turn Lanes and Median Openings		0	sy	\$		\$	-
		Pa	ving Consti	ruction (	Cost S	ubtotal:	\$	185,840
							200000000	
Majo	or Construction Component Allowa							
_	Item Description	Notes			Allo	wance	_	Item Cost
٧	Prep ROW					6%	-	11,150
Ι,	Traffic Control	None Anticipated				0%		-
\ V	Pavement Markings/Markers					3%		5,575
√.	Roadway Drainage	Standard Internal Sy	stem			30%		55,752
V	Illumination	9				6%	\$	11,150
l .	Special Drainage Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	Minor Adjustments				6%	\$	11,150
	Sewer	Minor Adjustments				4%	\$	7,434
$\checkmark$	Establish Turf / Erosion Control					3%	\$	5,575
$\checkmark$	Basic Landscaping					3%	\$	5,575
	Other:					\$0	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce S	ubtotal:	\$	113,362
			Paving and					299,202
1		Constru	ection Conti			10%		29,920
			Construc	ction C	ost T	OTAL:	\$	330,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	330,000
Engineering/Survey/Testing:		18%	\$	59,400
Mobilization		6%	\$	19,800
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	99,000
	Impact Foo Pro	ject Cost TOTAL:	¢	508,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### City of Rowlett 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc. updated: 6/21/2016

Project Informa	ation:	Description:	Project No.	2-0		
Name:	Martin Dr. (2)	This completed project consisted of the two-lane extension of				
Limits:	Melcer Dr. to Main St.	Martin Dr. This is a 2013 NCTCO	G grant project. The	total project		
Impact Fee Type:	C	cost is \$2,011,747 of which Rowlett contributed \$822,727 for the				
<b>Ultimate Class:</b>	Collector Thoroughfare	segment from Melcer Dr to Coyle	St. The segment fro	om Coyle St to		
Length (If):	577	Main St was completed since the	2013 study and wa	s built with a		
Service Area(s):	2	City contribution of \$427,205 for	a total of \$1,294,932	2.		

Item Description	Notes:	Allowance	Item Cost
City Contribution to Construction Cost: Engineering/Survey/Testing Other ROW/Easement Acquisition:		-	\$1,294,932

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description: Project No. 2-F					
Name:	Rowlett Rd.	This completed project consisted of the					
Limits:	Century Dr. to Kyle Rd.	construction of two additional lanes in the media					
Impact Fee Type:	A (1/3)	of Rowlett Rd. The total 2011 project cost is					
<b>Ultimate Class:</b>	Major Thoroughfare	\$7,268,244 of which Rowlett contributed \$3,792,336.					
Length (If):	1,615						
Service Area(s):	2						

Item Description	Notes:	Allowance	Item Cost
City Contribution to Construction Cost: Engineering/Survey/Testing Other		-	\$3,792,336
ROW/Easement Acquisition:	No ROW Acquisition Costs included		

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:		Description:	Project No.	2-Q		
Name: SG Collector #1		This project consists of the construction of a new 2				
Limits:	SG Collector #1	lane undivided c	ollector.			
Impact Fee Type:	SG-C5					
Ultimate Class:	Signature Gateway Collector-5					
Length (If):	1,452					
Service Area(s):	2					

Roa	dway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Un	it Price	0 0	Item Cost
109	Unclassified Street Excavation		3,388	су	\$	12.00	\$	40,656
209	6" Lime Stabilization (with Lime @ 2	?7#/sy)	6,615	sy	\$	4.00	\$	26,459
309	8" Concrete Pavement w/ 6" Curb		6,292	sy	\$	38.00	\$	239,096
409	4" Topsoil		0	sy	\$	-	\$	
509			31,944	sf	\$	4.00	\$	127,776
609	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	aving Constr	ruction (	Cost S	Subtotal:	\$	433,987
							-	
Majo	or Construction Component Allows							
	Item Description	Notes			Allo	owance		Item Cost
V	Prep ROW					6%	\$	26,039
١.	Traffic Control	None Anticipated				0%		-
V	Pavement Markings/Markers					3%	\$	13,020
√.	Roadway Drainage	Standard Internal Sy	stem			30%	\$	130,196
V	Illumination					6%	\$	26,039
	Special Drainage Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	Minor Adjustments				6%	\$	26,039
$\checkmark$	Sewer	Minor Adjustments				4%	\$	17,359
$\checkmark$	Establish Turf / Erosion Control					3%	\$	13,020
$\checkmark$	Basic Landscaping					3%	\$	13,020
	Other:					\$0	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce S	Subtotal:	\$	264,732
		·	Paving and					698,719
1		Constru	uction Conti	ngency:	1196	10%	\$	69,872
			Construc	ction C	ost T	OTAL:	\$	769,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 769,000
Engineering/Survey/Testing:	100	18%	\$ 138,420
Mobilization		6%	\$ 46,140
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 230,700
	\$ 1,184,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Information:		Description:	Project No.	2-R		
Name: SG Collector #2 Limits: SG Collector #2		This project consists of the construction of a new 2 lane undivided collector.				
Ultimate Class:	Signature Gateway Collector-5					
Length (If):	379					
Service Area(s):	2					

No.	Item Description		Quantity	Unit	Uni	it Price	Item Cost
109	Unclassified Street Excavation		884	су	\$	12.00	\$ 10,612
209	6" Lime Stabilization (with Lime @ :	27#/sy)	1,727	sy	\$	4.00	\$ 6,906
309	8" Concrete Pavement w/ 6" Curb		1,642	sy	\$	38.00	\$ 62,409
409	4" Topsoil		0	sy	\$	-	\$ -
509	11' Concrete Sidewalk		8,338	sf	\$	4.00	\$ 33,352
609	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
Paving Construction Cost Subtotal:							\$ 113,279
Majo	r Construction Component Allow						
	Item Description	Notes			Allo	wance	Item Cost
$\checkmark$	Prep ROW					6%	\$ 6,797
	Traffic Control	None Anticipated				0%	\$ -
V	Pavement Markings/Markers					3%	\$ 3,398
<b>V</b>	Roadway Drainage	Standard Internal Syste	em			30%	\$ 33,984
$\checkmark$	Illumination					6%	\$ 6,797
	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 6,797
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 4,531
$\checkmark$	Establish Turf / Erosion Control					3%	\$ 3,398
$\checkmark$	Basic Landscaping					3%	\$ 3,398
	Other:					\$0	\$ -
**Allov	vances based on % of Paving Construction C	ost Subtotal	=	Allowa	nce S	ubtotal:	\$ 69,100
			Paving and				\$ 182,379
		Construc	tion Conti	ngency:		10%	\$ 18,238

Item Description	Notes:	Allowance	1	tem Cost
Construction:		-	\$	201,000
Engineering/Survey/Testing:		18%	\$	36,180
Mobilization		6%	\$	12,060
Previous City contribution				
Other		<b>第一个人,这个人</b> 是不	=	
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	60,300
	Impact Fee Pro	ject Cost TOTAL:	\$	310,000

Construction Cost TOTAL: \$

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

201,000

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	tion:	Description:	Project No.	2-S
Name:	SG Collector #3	This project con	sists of the construc	tion of a new 2-
Limits:	SG Collector #3	lane undivided o		
Impact Fee Type:	SG-C5			
<b>Ultimate Class:</b>	Signature Gateway Collector-5			
Length (If):	854			
Service Area(s):	2			

No.	Item Description		Quantity	Unit	Un	it Price		Item Cost
109	Unclassified Street Excavation		1,993	су	\$	12.00	\$	23,912
209	6" Lime Stabilization (with Lime @	27#/ev)	3,890		\$	4.00	\$	15,562
309	8" Concrete Pavement w/ 6" Curb	21 #/3y)	3,701	sy	\$	38.00	\$	140,625
409	4" Topsoil		0	sy	\$	36.00	\$	140,025
509	11' Concrete Sidewalk			sy sf		4.00	-	75 450
609			18,788	-	\$	4.00	\$	75,152
609	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	ving Constr	uction (	ost	ouptotai:	<b>Þ</b>	255,251
TV-CP	- C44 C		Action of the state of the					
Majo	r Construction Component Allow				AII			
	Item Description	Notes			Alle	owance	_	Item Cost
V	Prep ROW					6%		15,315
,	Traffic Control	None Anticipated				0%	100	-
<b>V</b>	Pavement Markings/Markers					3%		7,658
√.	Roadway Drainage	Standard Internal Sys	tem			30%		76,575
V	Illumination					6%	\$	15,315
	Special Drainage Structures	None Anticipated				0%	\$	-
V	Water	Minor Adjustments				6%	\$	15,315
V	Sewer	Minor Adjustments				4%	\$	10,210
V	Establish Turf / Erosion Control					3%	\$	7,658
V	Basic Landscaping					3%	\$	7,658
	Other:					\$0	\$	- ,,,,,,
**Allo	vances based on % of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$	155,703
							ĺ	100,100
			Paving and	Allowa	nce S	Subtotal:	\$	410,954
Paving and Allowance Subtotal: Construction Contingency: 10%						10%	\$	41,095
Construction Contingency: 10% Construction Cost TOTAL:								

Item Description	Notes:	Allowance	ı	tem Cost
Construction:		-	\$	453,000
Engineering/Survey/Testing:		18%	\$	81,540
Mobilization		6%	\$	27,180
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	135,900

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	tion:	Description:	Project No.	2-T
Name:	SG Collector #4	This project con	sists of the construc	tion of a new 2-
Limits:	SG Collector #4	lane undivided c		
Impact Fee Type:	SG-C4			
Ultimate Class:	Signature Gateway Collector-4			
Length (If):	890			
Service Area(s):	2			

	dway Construction Cost Pro	ojection					
	Item Description		Quantity	Unit		it Price	Item Cost
108			2,472	су	\$	12.00	\$ 29,667
	6" Lime Stabilization (with Lime @ 2	27#/sy)	4,846	sy	\$	4.00	\$ 19,382
				\$	38.00	\$ 176,616	
408	4" Topsoil		1,236	sy	\$	5.00	\$ 6,181
	No sidewalk in ROW		0	sf	\$	-	\$ -
608	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
		Pa	ving Consti	ruction (	Cost S	Subtotal:	\$ 231,845
Majo	or Construction Component Allow						
	Item Description	Notes			Allo	owance	Item Cost
\	Prep ROW					6%	13,911
,	Traffic Control	None Anticipated				0%	-
√.	Pavement Markings/Markers					3%	\$ 6,955
√.	Roadway Drainage	Standard Internal Sy	stem			30%	69,554
V	Illumination	1				6%	\$ 13,911
	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 13,911
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 9,274
V	Establish Turf / Erosion Control					3%	\$ 6,955
V	Basic Landscaping					3%	\$ 6,955
	Other:					\$0	\$ -
**Allov	vances based on % of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$ 141,425
			Paving and				\$ 373,270
		Constru	ction Conti			10%	\$ 37,327
			Construc	ction C	ost 1	OTAL:	\$ 411,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 411,000
Engineering/Survey/Testing:		18%	\$ 73,980
Mobilization		6%	\$ 24,660
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$ 123,300
	Impact Fee Pro	ject Cost TOTAL:	\$ 633,000

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ation:	Description:	Project No.	2-U
Name:	SG Major Thoroughfare	This project con	sists of the construc	tion of a new 2-
Limits:	SG Major Thoroughfare	lane divided maj		
Impact Fee Type:	SG-A+			
Ultimate Class:	Signature Gateway Major Thor	oughfare		
Length (If):	464			
Service Area(s):	2			

No.	Item Description		Quantity	Unit	Uni	t Price	Item Cost
	Unclassified Street Excavation		1,495	су	\$	12.00	\$ 17,941
210	6" Lime Stabilization (with Lime @ 2	27#/sy)	2,887	sy	\$	4.00	\$ 11,548
310				sy	\$	38.00	\$ 101,874
410	4" Topsoil		2,990	sy	\$	5.00	\$ 14,951
510	5' Concrete Sidewalk		4,640	sf	\$	4.00	\$ 18,560
610	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
		Pa	ving Const	ruction (	ost S	ubtotal:	\$ 164,875
Majo	or Construction Component Allow	ances**:					
	Item Description	Notes	MIT AT A STATE OF THE STATE OF		Allo	wance	Item Cost
$\checkmark$	Prep ROW			9	All I am and	6%	\$ 9,892
1	Traffic Control	None Anticipated				0%	\$ -
$\checkmark$	Pavement Markings/Markers					3%	\$ 4,946
$\checkmark$	Roadway Drainage	Standard Internal Sys	stem	*		30%	\$ 49,462
$\checkmark$	Illumination					6%	\$ 9,892
l	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 9,892
$\checkmark$	Sewer	Minor Adjustments			-	4%	\$ 6,595
$\checkmark$	Establish Turf / Erosion Control	1 2			1	3%	\$ 4,946
$\checkmark$	Basic Landscaping	7 .				3%	\$ 4,946
	Other:	-				\$0	\$ -
**Allo	*Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:					\$ 100,574	
			Paving and			ubtotal:	\$ 265,448
1		Constru	ıction Conti	ngency:		10%	\$ 26,545
			Construc	ction C	ost T	OTAL:	\$ 292,000

Item Description	Notes:	Allowance	1	tem Cost
Construction:		-	\$	292,000
Engineering/Survey/Testing:		18%	\$	52,560
Mobilization		6%	\$	17,520
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	87,600

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

### 2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description:	Project No.	2-V
Name: Limits:	HL Collector #3 HL Collector #3	전에 다른 회사는 점점 교육 없다는 배상이를 위한 경관적인 기계에게 그렇게 하지만 했다.	sists of the construc	ction of a new 2-
Impact Fee Type: HL-C1		lane undivided c	ollector.	
Ultimate Class:	Healthy Living Collector-1			
Length (If):	700			
Service Area(s):	2			

Roa	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Unit	Price		Item Cost
112	Unclassified Street Excavation		2,022	су	\$	12.00	\$	24,267
212	2 6" Lime Stabilization (with Lime @ 27#/sy) 3,967 sy			\$	4.00	\$	15,867	
312	8" Concrete Pavement w/ 6" Curb		3,811	sy	\$	38.00	\$	144,822
	4" Topsoil		0	sy	\$	-	\$	-
	11' Concrete Sidewalk		7,700	sf	\$	4.00	\$	30,800
612	Turn Lanes and Median Openings		0	sy	\$	-	\$	-
		Pa	ving Const	ruction (	Cost S	ubtotal:	\$	215,756
r-war-w	•						-	
Majo	or Construction Component Allow							
<u> </u>	Item Description	Notes			Allo	wance		Item Cost
V	Prep ROW					6%	-	12,945
,	Traffic Control	None Anticipated				0%		-
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pavement Markings/Markers					3%	1.33	6,473
\\	Roadway Drainage	Standard Internal Sy	stem			30%	\$	64,727
V	Illumination					6%	\$	12,945
١,	Special Drainage Structures	None Anticipated				0%	\$	-
\ \	Water	Minor Adjustments				6%	\$	12,945
\\	Sewer	Minor Adjustments				4%	\$	8,630
\ \	Establish Turf / Erosion Control					3%	\$	6,473
√	Basic Landscaping				l	3%	\$	6,473
	Other:	*				\$0	•	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce S	ubtotal:	\$	131,611
			Paving and				\$	347,366
		Constru	ction Conti			10%	\$	34,737
			Construc	ction C	ost T	OTAL:	\$	383,000

Item Description	Notes:	Allowance	VI 2.44	Item Cost
Construction:		-	\$	383,000
Engineering/Survey/Testing:		18%	\$	68,940
Mobilization		6%	\$	22,980
Previous City contribution			11	
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	114,900
Noth Education Adjustion.		ject Cost TOTAL:		590,0

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

2016 Roadway Impact Fee Minor Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

6/21/2016

Project Informa	ition:	Description:	Project No.	2-W
Name:	Bayside Arterial	This project consi	sts of the construc	ction of a new 4-
Limits:	IH-30 WBFR to Bayside Boulevard	lane divided arteri		
Impact Fee Type:	BS-A			
Ultimate Class:	Bayside Arterial			
Length (If):	1,350			
Service Area(s):	2			

Roa	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
115	Unclassified Street Excavation		4,200	су	\$	12.00	\$ 50,400
215	6" Lime Stabilization (with Lime @ 2	?7#/sy)	8,100	sy	\$	4.00	\$ 32,400
315	8" Concrete Pavement w/ 6" Curb		7,500	sy	\$	38.00	\$ 285,000
415	4" Topsoil		4,050	sy	\$	5.00	\$ 20,250
515	5' Concrete Sidewalk		10,800	sf	\$	5.00	\$ 54,000
615	Turn Lanes and Median Openings		0	sy	\$	-	\$ -
		Pa	ving Constr	uction (	Cost S	Subtotal:	\$ 442,050
Majo	or Construction Component Allowa	ances**:					
	Item Description	Notes			Alle	owance	Item Cost
	√ Prep ROW			6%	\$ 26,523		
	Traffic Control	None Anticipated				0%	\$ -
$\checkmark$	Pavement Markings/Markers					3%	\$ 13,262
$\checkmark$	Roadway Drainage	Standard Internal Sy	stem			30%	\$ 132,615
$\checkmark$	Illumination					6%	\$ 26,523
	Special Drainage Structures	None Anticipated				0%	\$ -
$\checkmark$	Water	Minor Adjustments				6%	\$ 26,523
$\checkmark$	Sewer	Minor Adjustments				4%	\$ 17,682
$\checkmark$	Establish Turf / Erosion Control					3%	\$ 13,262
$\checkmark$	Basic Landscaping					3%	\$ 13,262
$\checkmark$	Other:	Bridge Overpass			\$1	,500,000	\$ 1,500,000
**Allo	vances based on % of Paving Construction Co	ost Subtotal		Allowa	nce S	Subtotal:	\$ 1,769,651
				11			4
			Paving and	Allowa	nce S	Subtotal:	\$ 2,211,701
		Constru	iction Conti	ngency:		10%	\$ 221,170

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	2,433,000
Engineering/Survey/Testing:		18%	\$	437,940
Mobilization	1986	6%	\$	145,980
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	30%	\$	729,900
*	Impact Fee Pro	ject Cost TOTAL:	4	3,747,000

Construction Cost TOTAL: \$

**NOTE:** The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Rowlett.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

2,433,000

### Appendix B – CIP Service Units of Supply

## City of Rowlett - 2013 Roadway Impact Fee Study

CIP Service Units of Supply

Continue	Parvice	Service Area 1	5		2	fidding is silled and iso inc								ď	9/25/2013
Control Cont	Project ID #		LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME		VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL	VEH-MI TOTAL DEMAND PK-HR	EXCESS CAPACITY PK-HR VEH-MI		TOTAL PRO COST IN SE AREA	SUECT
Hickor Red. (1) Roweler Red. 1 265 Weil File Liberty Concerned Red. (2) Each Red. (2) Each Red. (2) Each Red. (3) Each Red. (3) Each Red. (3) Each Red. (3) Each Red. (4) Each Red. (4) Each Red. (4) Each Red. (4) Each Red. (5) Each Red. (6)	1-A	Castle Dr.	Miles Rd. to Merritt Rd.	0.51	4	8	342	100%	625	1263	173	1,090	\$ 2,185,0	\$	85,000
Hickor (12)   220 N Let   Total Ref.   112	1-B	Hickox Rd. (1)		0.59	4	B, B+	389	100%	625	1472	229	1243.06439	\$ 2,737,012.	s	012.00
Maritt Connector (1)   Receive Maritt Connector (2)   Ref   152   4   8   312   100%   622   33.36   5   226.000   5   5     Liberty Concester (2)   Ref   152   162	<del>1</del> 0	Hickox Rd. (2)	235' NE. of Toler Rd. to Merritt Rd.	0.76	4	÷	132	100%	700	2126	100	2,026	\$ 3,531,0	s	31,000
Liberty Grove-Meritat Connector (1)   POSET NEPER to Liberty Grove-Meritat Connector (1)   POSET NEPER to Liberty Grove-Meritat Connector (2)   POSET NEPER to Liberty Grove-Meritat Connector (3)   POSET NEPER to Liberty Grove-Meritat Connector (4)   POSET NEPER to Liberty Grove-Meritat Connector (5)   POSET NEPER to Liberty Grove-Meritat Connector (6)   POSET NEPER to Liberty Grove-Meritat Connecto	1-D	Merritt Rd.	N. City Limit to 860' SE. of Future Liberty Grove-Merritt Connector	1.52	4	8	312	100%	625	3811	475	3,336	\$ 2,926,0	69	26,087
Liberty Growe Red. (2)   Robert Rob	1-E	Liberty Grove-Merritt Connector (1)	PGBT NBFR to 805' E. of PGBT NBFR	0.15	9	ď	0	100%	200	642	0	642	\$ 1,204,0	69	04,000
Liberly Grove Rd. (1) Rosebuld Dt. to PGBT SBFR 0.057 4 B B 1876 100% 625 388 213 175 5 5000 S 2 Liberly Grove Rd. (2) Mentit Rd. to Chiese Rd. to Chiese Rd. to Chiese Rd. to Chiese Rd. (3) Mentit Rd. to Chiese Rd. to Chiese Rd. (4) Chiese Rd. to Chiese Rd. to Chiese Rd. (4) Chiese Rd. to Chiese Rd. (5) Mentit Rd. to Chiese Rd. (5) Mentit Rd. to Chiese Rd. (6) Mentit Rd. to Chiese Rd. (7) Chie	1-1	Liberty Grove-Merritt Connector (2)	805' E. of PGBT NBFR to Liberty Grove Rd.	0.49	4	8	0	100%	625	1215	0	1,215	\$ 3,106,0	69	000'90
Liberty Grove Rd. (2)         PGET INBFR to Merrit Rd.         0.16 G         4         B         1,375 (100%)         625 (256 2)         236 (270 5)         67,100 \$         6.7           Liberty Grove Rd. (4)         Otherst Rd. (b)         Chiesa Rd. to Princeton Rd.         0.26 d         4         B         1,375 (100%)         625 (256 7)         706 3         3.88 (2000)         \$ 4,855,000         \$ 4,855,000         \$ 5           Liberty Grove Rd. (5)         Divises Rd. to Princeton Rd.         1.08 d         4         B + 1,375 (100%)         625 (200 7)         71079 (1079 1)         1,378 (100%)         829 (200 8)         3.88 (200 8)         \$ 365,000 \$	<del>1</del>	Liberty Grove Rd. (1)	Rosebud Dr. to PGBT SBFR	0.67	4	8	98	100%	625	1681	58	1,623		49	08,000
Liberty Grove Rd. (3)   Morritt Rd. to Chiesa Rd.   Consea Rd.   Con	1 <del>.</del> F	Liberty Grove Rd. (2)	PGBT NBFR to Merritt Rd.	0.16	4	8	1,375	100%	625	388	213	175	\$ 671,0	69	71,000
Liberly Grove Rd. (4)         Chiese Rd. to Princetion Rd.         0.28         4         B         1,375         100%         625         706         388         318         \$ 365,293         \$ 3,857,000         \$ 2,95         \$ 3,867,000         \$ 2,95         \$ 3,867,000	1-1	Liberty Grove Rd. (3)	Merritt Rd. to Chiesa Rd.	0.95	4	80	1,375	100%	625	2363	1,299	1,064	Ì	69	52,000
Liberty Grove Rd. (5)   Roadmoor Ln. to Em Grove Rd.   1,023	1-1	Liberty Grove Rd. (4)	Chiesa Rd. to Princeton Rd.	0.28	4	80	1,375	100%	625	902	388	318	\$ 365,2	69	65,293
Elim Growe Rdd   N. City, Limit to Liberty Grove Rdd   1,008 Rdd	<del>1,</del>	Liberty Grove Rd. (5)	Broadmoor Ln. to Elm Grove Rd.	0.84	4	В	1,283	100%	625	2102	1,079	1,023	\$ 3,867,0	49	67,000
Dairock Rd. (1)   Liberty Grove Rd. to Princeton Rd. 1470 SE. of Lake North Rd.   0.46   4   B+   3.04   100%   700   1278   1.139   \$ 2.505,000   \$ 5 2 2 Delarock Rd. (2)   100%   100%   100%   100%   1.200   1.201   1.	7	Elm Grove Rd.	N. City Limit to Liberty Grove Rd.	1.08	4	80	6//	100%	625	2691	839	1,852	\$ 4,655,0	49	55,000
Dalrock Rd. (2) 105 NE. of Pecan L. No Princetion Rd. 145 4 B+ 469 100% 700 4064 681 3.383 \$ 7131,000 \$ 7 7 100 100	1-M	Dalrock Rd. (1)	Liberty Grove Rd. to 770' SE. of Lake North Rd.	0.46	4	÷	304	100%	700	1278	139	1,139		s	05,000
Dairock Rd. (3)   Princeton Rd. to Lakeview Pkwy.   0.36 6 A (1/3)   855 100%   700   1520   399   1,211 \$ 8,94,000 \$ \$ Princeton Rd. to Lakeview Pkwy.   0.19 4 B 4 41 100%   625 3 494   602 2,882 \$ 6,044,000 \$ 6 C C C C C C C C C C C C C C C C C C	1-N	Dalrock Rd. (2)	105' NE. of Pecan Ln. to Princeton Rd.	1.45	4	÷	469	100%	700	4064	681	3,383	\$ 7,131,0	69	31,000
Princeton Rd.         Existing Princeton Rd. Liberty Grove Rd.         0.19         2         C         2.046         100%         520         187         3.83         -196         \$         675,000         \$           Chiese Rd. (1)         Liberty Grove Rd. (1)         Liberty Grove Rd. (2)         Liberty Grove Rd. (2)         1.40         4         4         100%         520         187         5         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.04,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.04,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.044,000         \$         6.04,000         \$         6.04,000         \$         6.04,000         \$         6.04,000         6.0         6.04,000         6.0	1-0	Dalrock Rd. (3)	Princeton Rd. to Lakeview Pkwy.	0.36	9	A (1/3)	855	100%	200	1520	309	1,211	\$ 954,0	89	54,000
Chiesa Rd. (1) Liberty Grove Rd. to Danridge Rd.  Danridge	1-P	Princeton Rd.	Existing Princeton Rd. to Liberty Grove Rd.	0.19	2	O	2,046	100%	200	187	383	-196	\$ 675,0	49	75,000
Danidge Rd,   Maplewood Dr. to Tavelet's Crossing   0.25   2 C   769   100%   500   192   58   \$9   902,000   \$\$   Freedom Ln.   Big. A Rd. to Lakeview Pkwy.   Dallock Rd. at Lakeview Pkwy	å	Chiesa Rd. (1)	Liberty Grove Rd. to Danridge Rd.	1.40	4	8	431	100%	625	3494	602	2,892		s	44,000
Freedom Ln.         Big A. Rd to Lakeview Pkwy.         015         2         C         0         100%         500         148         \$ 533,000         \$           Lakeview Pkwy.         Dates Rd to E. City Limit         0.82         A+(1/3)         2.789         50%         700         1880         1,120         560         \$ 21,000         \$         1,100         \$ 5	1-R	Danridge Rd.	Maplewood Dr. to Traveler's Crossing	0.25	2	O	692	100%	200	250	192	58	\$ 902,0	49	02,000
Lakeview Pkwy, Dairock Rd, in E. City Limit A. Dison Rd, in E. City Limit Rd, at I Collector #1	1-S	Freedom Ln.	Big A. Rd. to Lakeview Pkwy.	0.15	2	ပ	0	100%	200	148	0	148	\$ 533,0	69	33,000
HL Collector #1         HL Collector #2         HLCS         PLCS         2         HLCS         PLCS         187         6         187         \$         820,000         \$           HL Collector #2         HL Collector #2         HL Collector #2         HL Collector #2         100%         0         5         1,250,000         \$         \$         1,250,000	1-T, 2-L	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	9	A+ (1/3)	2,799	20%	700	1680	1,120	260	\$ 2,108,0	\$	54,000
HL Collector #2         HL Collector #2         HL Collector #2         \$ 447,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 947,000 \$         \$ 260,000	1-0	HL Collector #1	HL Collector #1	0.22	2	HL-C3		100%	425	187	0	187	\$ 830,0	69	30,000
Dairock Rd. at Lakeview Pkwy.         Dairock Rd. at Lakeview Pkwy.         5 1,250,000 \$         \$ 1,250,000 \$         \$ 250,000 \$	1-V	HL Collector #2	HL Collector #2					100%			0		\$ 947,0	49	47,000
Liberty Grove Rd.         Liberty Grove Rd.         100%         0         \$ 250,000 \$           Princeton Rd. at Liberty Grove Rd.         100%         0         \$ 250,000 \$           Merritt Rd. at Liberty Grove Rd.         100%         0         \$ 250,000 \$           Merritt Rd. at Castle Dr.         100%         0         \$ 250,000 \$           Merritt Rd. at Liberty Grove Rd.         100%         0         \$ 450,000 \$           Merritt Rd. at Liberty Grove Rd.         100%         0         \$ 250,000 \$	-		Dalrock Rd. at Lakeview Pkwy.					%09			0		\$ 1,250,0	49	25,000
Princeton Rd. at Liberty Grove Rd.         Princeton Rd. at Liberty Grove Rd.         Princeton Rd. at Liberty Grove Rd.         \$ 250,000 \$           Merritt Rd. at Cash Dr.         100%         0         \$ 250,000 \$           Merritt Rd. at Cash Dr.         100%         0         \$ 250,000 \$           Merritt Rd. at Liberty Grove Rd.         100%         0         \$ 450,000 \$           Merritt Rd. at PGBT         100%         0         \$ 250,000 \$	2		Liberty Grove Rd. at Chiesa Rd.					100%			0		\$ 250,0	€	50,000
Merritt Rd. at Hickox Rd.         Merritt Rd. at Hickox Rd.         100%         0         \$ 250,000         \$ 250,	3		Princeton Rd. at Liberty Grove Rd.					100%			0		\$ 250,0	↔	20,000
Merritt Rd. at Castle Dr.         Merritt Rd. at Lebely Grove Rd.         7 100%         0         \$ 250,000 \$           Merritt Rd. at Lebely Grove Rd.         100%         0         \$ 450,000 \$           Merritt Rd. at Lebely Grove Rd.         100%         0         \$ 250,000 \$	4		Merritt Rd. at Hickox Rd.					100%			0		\$ 250,0	↔	50,000
Merritt Rd. at Liberty Grove Rd.         450,000 \$           Merritt Rd. at IPGBT         0         \$ 250,000 \$	2		Merritt Rd. at Castle Dr.					100%			0		\$ 250,0	49	50,000
	9		Merritt Rd. at Liberty Grove Rd.					100%			0		\$ 450,0	\$	50,000
	7		Merritt Rd. at PGBT					100%			0		\$ 250,0	\$	50,000

| 33,268 | 8,279 | 24,989 | \$ 58,586,392 | \$ 56,907,392 | \$ 2013 Roadway Impact Fee Study Cost Per Service Area \$ 22,500 | TOTAL COST IN SERVICE AREA 1 \$ 56,929,892

# City of Rowlett - 2016 Roadway Impact Fee Minor Update

### CIP Service Units of Supply

Service Area 2	\rea 2														6/21/2016
Project ID #	ROADWAY	SIMIT	LENGTH	LANES	IMPACT FEE	PEAK	% IN SERVICE	VEH-MI CAPACITY	VEH-MI SUPPLY	VEH-MI TOTAL	EXCESS		DJECT	TOTAL PROJECT	OJECT
			(M)	0	CLASSIFICATION	VOLUME		PK-HR PER LN	PK-HR TOTAL	DEMAND PK-HR	PK-HR VEH-MI	0	COST	AREA	i «
2-A	Main St.	Lakeview Pkwy. to 310' W. of Rowlett Rd.	0.58	4	8	445	100%	625	1,448	258	1,190	69	5,181,000	5,1	5,181,000
2-B	Future Main-Century Connection	Main St. to Century Dr.	0.11	4	æ	0	100%	625	278	0	278	s	942,000	5	942,000
5-C	Miller Rd. (1)	Dexham Rd. to Rowlett Rd.	1.02	9	A (1/3)	1,298	100%	200	4,276	1,322	2,954	s	5,128,000	5,1	5,128,000
2-D	Miller Rd. (2)	Rowlett Rd. to PGBT SBFR	0.77	9	A (1/3)	1,298	100%	200	3,252	1,005	2,247	s	2,433,000	\$ 2,4	2,433,000
2-E	Miller Rd. (3)	PGBT NBFR to 360' E. of PGBT NBFR	20.0	9	A (1/3)	1,298	100%	700	287	89	198	69	181,000	5	181,000
2-F	Miller Rd. (4)	360' E. of PGBT NBFR to Lake Ray Hubbard Bridge	0.33	9	A	1,190	100%	700	1,391	394	266	s	1,540,000	3,1	1,540,000
5-G	Miller Rd. (5)	Lake Ray Hubbard Bridge to 372' W. of Dalrock Rd.	1.02	9	4	1,145	100%	700	4,275	1,166	3,109	s	5,115,000	\$ 5,1	5,115,000
2-H	Chiesa Rd. (2)	360' S. of Lakeview Pkwy. to Miller Rd.	1.25	4	#	1,099	100%	700	3,500	1,374	2,126	s	6,194,000	\$ 6,1	6,194,000
2-1	Chiesa Rd. (3)	Miller Rd. to Dalrock Rd.	1.21	4	#	1,099	100%	200	3,401	1,335	2,066	w	5,878,000	\$ 5,8	5,878,000
2-7	Dalrock Rd. (4)	Lakeview Pkwy. to Miller Rd.	1.79	9	A (1/3)	2,306	100%	700	7,505	4,121	3,384	s	4,707,000	\$ 4,7	4,707,000
2-K	Dalrock Rd. (5)	Miller Rd. to IH-30 WBFR	96.0	9	A (1/3)	3,024	100%	700	4,108	2,958	1,150	s	2,577,000	\$ 2,5	2,577,000
1-T, 2-L	Lakeview Pkwy.	Dalrock Rd. to E. City Limit	0.80	9	A+ (1/3)	331	20%	200	1,680	132	1,548	69	2,108,000	1,0	1,054,000
2-M	Melcer Dr.	Melcer Dr. Extension	0.20	2	ပ္	0	100%	425	169	0	169	s	741,000	8	741,000
2-N	Martin Dr. (1)	Main St. to South End	0.14	2	<u>٥</u>	0	100%	425	116	0	116	69	508,000	49	508,000
5-0	Martin Dr. (2)	Melcer Dr. to Main St.	0.11	2	ပ	0	100%	200	109	0	109	s	1,294,932	\$ 1,2	,294,932
2-P	Rowlett Rd.	Century Dr. to Kyle Rd.	0.31	9	A (1/3)	2,190	100%	700	1,285	670	615	s	3,792,336	3,7	3,792,336
2-0 2-0	SG Collector #1	SG Collector #1	0.28	2	SG-C5		100%	425	234	0	234	s	1,184,000	5,1	1,184,000
2-R	SG Collector #2	SG Collector #2	0.07	2	SG-C5		100%	425	61	0	61	s	310,000	•	310,000
2-S	SG Collector #3	SG Collector #3	0.16	2	SG-C5		100%	425	137	0	137	s	698,000	*	698,000
2-T	SG Collector #4	SG Collector #4	0.17	2	SG-C4		100%	425	143	0	143	s	633,000	•	633,000
5-N	SG Major Thoroughfare	SG Major Thoroughfare	60.0	7	SG-A+		100%	425	75	0	75	s	450,000	8	450,000
2-N	HL Collector #3	HL Collector #3	0.13	2	HL-C1		100%	425	113	0	113	s	290,000	\$	590,000
2-W	Bayside Arterial	IH-30 WBFR to Bayside Boulevard	0.26	2	BS-A		100%	425	217	0	217	s	3,747,000	3,7	3,747,000
1	Intersection Improvement	Dalrock Rd. at Lakeview Pkwy.					%09					s	1,250,000	8	625,000
2	Intersection Improvement	Dalrock Rd. at Chiesa Rd.					100%					s	750,000	*	750,000
3	Signal Installation	Dexham Rd. at Miller Rd.					100%					s	250,000	\$	250,000
SUBTOTAL			0						38,061	14,824	23,237	\$	58,182,268	999 9	56,503,268
					2013 Roadw	vay Impact	Fee Study a	ind 2016 Rc	adway Impa	ct Fee Mino	2013 Roadway Impact Fee Study and 2016 Roadway Impact Fee Minor Update Cost Per Service Area	t Per Ser	vice Area		32,000
										TOTAL	SOLT IN S	EDIVO:	ADEA 2	2 2 2	56 525 368
										וסואר	IOTAL COST IN SERVICE AREA 2	IN IN	AREA 2	,00	097,000



### Appendix C – Existing Roadway Facilities Inventory

City of Rowlett - 2013 Roadway Impact Fee Study Existing Roadway Facilities Inventory

Service Area 1																					200000
ROADWAY	FROM	Ω	LENGTH	LENGTH	EXIST		XIST CLASS	_	L	PM	% IN		EH-MI PACITY	NE VE	H-MI	VE.	H-MI	EXCE	SSS	DEFICIENCIES	GE AG
		!	£	(mi)	LANES		LANES	LANES		HOUR	AREA		PK-HR	£ £	PK-HR TOTAL	¥ 5	PK-HR TOTAL	PK-HR VFH-MI	<b>¥</b> ₹	PK-HR	
				•	NB/EB S	SB/WB			NB/EB	B SB/WB		NB/EB	S SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
Castle Dr./Dexham Rd.	Lakeview Pkwy.	395' N. of Hickox Rd.	5,185	86.0	⊢	⊢	┞	L	287	⊢	100%	650	⊢	1,277	1,277	281	268	995	1.008	+	
Castle Dr.	Miles Rd.	Merritt Rd.	2,670	0.51	-	1 2	_	_	190		100%	450	450	228	228	96	11	131	151		_
Hickox Rd.	Castle Dr.	Bluebell Dr.	4,205	0.80	2	7	_	_	198		100%	650	650	1,035	1,035	158	152	878	883		
Hickox Rd.	Bluebell Dr.	Bluebonnet Dr.	1,225	0.23	2	2			198		100%	200	200	232	232	46	44	186	188		
Hickox Rd.	Bluebonnet Dr.	235' NE. of Toler Rd.	1,360	0.26	-	-			66	_	100%	650	650	167	167	56	24	142	143		
Hickox Rd.	235' NE. of Toler Rd.	Merritt Rd.	4,010	9.76	-	1 2	_		69		100%	450	450	342	342	52	48	290	293		
Big A Rd.	Rowlett Rd.	End of Road	3,060	0.58	-	1 2	2U-A C	20	138	134	100%	450	450	261	261	80	78	181	183		
Rowlett Rd.	Castle Dr.	Lakeview Pkwy.	9,660	1.83	8	3	_		1.196	_	100%	700	200	3.842	3.842	2.187	2,585	1,655	1,257		
Merritt Rd.	N. City Limit	260' NW. of Castle Dr.	2,495	0.47	2	2		_	132		100%	650	650	614	614	62	92	552	538		
Merritt Rd.	260' NW. of Castle Dr.	Future Liberty Grove-Merritt Connector	4,695	0.89	-	1 2	_		129		100%	450	450	400	400	115	162	285	238		_
Merritt Rd.	Future Liberty Grove-Merritt Connector	860' SE. of Future Liberty Grove-Merritt Con		0.16	-	1 2			129		100%	450	450	73	73	21	30	52	44		
Merritt Rd.	860' SE. of Future Liberty Grove-Merritt (PGBT SBFR	(PGBT SBFR		0.32	-	1 2	-		129		100%	450	450	144	144	4	29	103	86		
Merritt Rd.	PGBT NBFR	Liberty Grove Rd.	945	0.18	-	1 2			314		100%	450	450	8	8	99	6	24	78		
Liberty Grove Rd.	Rosebud Dr.	PGBT SBFR	3,550	0.67	-	1 2		_	32		100%	450	450	303	303	7	36	281	266		
Liberty Grove Rd.	PGBT SBFR	PGBT NBFR	305	90 0	0	2	_		789		100%	200	200	84	84	46	,	12	48		
Liberty Grove Rd.	PGBT NBFR	Muddy Creek	2.215	0.42		7	_	_	069	_	100%	450	450	180	180	290	287	101-	86	101	80
Lakeview Pkwv.	W. City Limit	E City Limit	14 390	273	. "				1 755		2007	2002	200	2 962	2 962	2 200	2776	120	202	2	96
			200,1		,	,			-	_	800	3	3	7007	7007	766'7	2,270	2	200		
Vinson Rd.	Elm Grove Rd.	N. City Limit	2,725	0.52	-	1 2	O-A	20	06		100%	450	450	232	232	46	99	186	166		
Elm Grove Rd.	N. City Limit	Vinson Rd.	255	0.05	-	1 2	U-A B	40	155		100%	450	450	22	22	7	7	14	15		
Elm Grove Rd.	Vinson Rd.	695' NW. of Yeager Rd.	1,095	0.21	-	1 21	U-A B	40	155		100%	450	450	93	93	32	31	61	62		
Elm Grove Rd.	695' NW. of Yeager Rd.	Liberty Grove Rd.	4,210	0.80	-	1 21	U-A B	4U	133	_	100%	450	450	359	359	106	117	253	241		
Waterview Pkwy.	Liberty Grove Rd.	Elm Grove Rd.	7,465	1.41	-	1 2U	CG C	20	547		100%	200	200	707	707	774	925	-67	-218	67	218
Princeton Rd.	Raney Rd.	Old Princeton Rd.	4,675	68.0	-	1 2	_	_	75	_	100%	450	450	398	398	99	99	332	332		
Liberty Grove Rd.	Muddy Creek	Chiesa Rd.	2,880	0.55	-	1 2		_	069	_	100%	450	450	245	245	376	373	-131	-128	131	128
Liberty Grove Rd.	Chiesa Rd.	Broadmoor Ln.	4,290	0.81	7	2	_		615		100%	650	650	1,056	1,056	200	543	557	514		
Liberty Grove Rd.	Broadmoor Ln.	Bent Tree Dr.	2,080	0.39	-	1 21			390	_	100%	450	450	177	177	154	153	24	24		
Liberty Grove Rd.	Bent Tree Dr.	Liberty Grove Elem. School	185	0.04	-	-	_		390	_	100%	220	220	19	19	14	14	9	9		
Liberty Grove Rd.	Liberty Grove Elem. School	280' NE. of Esquire Ln.	675	0.13	-	-	_		390	_	100%	220	220	20	02	20	20	50	21		
Liberty Grove Rd.	280' NE. of Esquire Ln.	Elm Grove Rd.	1,500	0.28	-	1 21		_	390		100%	450	450	128	128	111	=	17	17		
Chiesa Rd.	Liberty Grove Rd.	Danridge Rd.	7,380	1.40	-	1 21	_	_	204		100%	450	450	629	629	285	318	344	311		
Chiesa Rd.	Danridge Rd.	Lakeview Pkwy.	2,310	0.44	2	2	_		373		100%	650	650	569	269	163	173	406	395		
Dalrock Rd.	Liberty Grove Rd.	770' SE. of Lake North Rd.	2,260	0.43	-	1 21	_	_	246		100%	450	450	193	193	105	92	87	26		
Dalrock Rd.	105" NE. of Pecan Ln.	Princeton Rd.	7,663	1.45	-	1 21	_		443		100%	450	450	653	653	643	265	10	26		
Dalrock Rd.	Princeton Rd.	Lakeview Pkwy.	1,910	0.36	7	2	_		1,003	_	100%	650	650	470	470	363	378	108	93		
Lakeview Pkwy.	W. City Limit	Dalrock Rd.	7,025	1.33	8	3	_		1,626	_	20%	700	700	1,397	1,397	1,082	848	315	549		
Lakeview Pkwy.	Dalrock Rd.	E. City Limit	4,225	0.80	2	2	4D A+	9	1,446	1,353	20%	920	650	520	520	629	541	-58	-21	28	21
Scenic Dr.	Mallard Reserve Dr.	Lakeview Pkwy.	855	0.16	-	1 20	4		90	+	100%	200	200	81	81	8	8	73	73		
SUBTOTAL			128,188	24.28	1	-								20,127	20,127	11,433	11,631	8,694	8,496	357	465

City of Rowlett - 2016 Roadway Impact Fee Minor Update Existing Roadway Facilities Inventory

						Ī	ľ	H		٩	Md	NI %	VEL	VFH-MI	VFH	M	VEH.MI	M	FYCES	0	FYICTING
ROADWAY	FROM	2	LENGTH	LENGTH	ú	TSD		CLASS	FUTURE	P. P.	¥	SERVICE	CAPA	CAPACITY	SUPE	<u>ر</u>	DEMAND	Q	CAPACITY	, ≽	DEFICIENCIES
			€	(im)	ב	LANES	LANES		LANES	! 운 >	HOUR	AREA	¥ H	PK-HR PER LN	PK-HR TOTAL	¥ ≠	PK-HR TOTAL	<b>&amp;</b> =	PK-HR VEH-MI	~=	PK-HR VFH-MI
					NB/EB	SB/WB				NB/EB	SB/WB		NB/EB	SB/WB	NB/E	SB/WB	NB/EB	SB/WB	NB/EB S	WB	NB/EB   SB/WB
.akeview Pkwy.	W. City Limit	Dalrock Rd.	7,025	1.33	3	3	9	ŧ	Q9	1,626	1.275	20%	700	200	1.397	1.397	1.082	848	315	H	-
_akeview Pkwy.	Dalrock Rd.	E. City Limit	4,375	0.83	2	2	40	+	9	1,446	1,353	20%	650	650	539	539	299	561	-61	-22	61
Schrade Rd.	Chiesa Rd.	Dalrock Rd.	4,080	0.77	-	-	2U-A	O	2U	127	96	100%	450	450	348	348	86	74	249	274	
Miller Rd.	Lake Ray Hubbard Bridge	370' W. of Dalrock Rd.	6,415	1.21	-	-	ZU-A	A	9	580	999	100%	450	450	547	547	704	687	-158	-140	158
Miller Rd.	370' W. of Dalrock Rd.	Dalrock Rd.	370	0.07	2	2	40	A	9	235	303	100%	650	650	16	91	16	21	75	70	
Garner Rd.	W. City Limit	Stanford St.	2,555	0.48	-	-	2U-A	O	20	75	75	100%	450	450	218	218	36	36	181	181	
Garner Rd.	Chiesa Rd.	170' W. of Randi Rd.	2,275	0.43	-	-	ZU-A	O	2U	75	75	100%	450	450	194	194	32	32	162	162	
Garner Rd.	170' W. of Randi Rd.	Dalrock Rd.	1,420	0.27	-	-	2U-CG	O	20	75	75	100%	200	200	134	134	20	20	114	114	
Chiesa Rd.	Lakeview Pkwy.	Dalrock Rd.	13,375	2.53	,	1	ZU-A	A	9	461	638	100%	450	450	1,140	1,140	1,167	1.617	-27	-477	27
Dalrock Rd.	Lakeview Pkwy.	590' S. of Chiesa Rd.	13,835	2.62	2	2	40	A	9	1,128	1,178	100%	650	650	3,406	3,406	2,957	3,086	450	321	
Dalrock Rd.	590' S. of Chiesa Rd.	I-30 WBFR	760	0.14	2	2	40	A	9	1,536	1,489	20%	650	650	94	94	111	107	-17	-14	17
Scenic Dr.	Lakeview Pkwy.	200' S. of Pollard St.	2,175	0.41	2	2	4D	O	20	163	168	100%	650	650	236	536	29	69	469	466	
Scenic Dr.	200' S. of Pollard St.	Woodlake Dr.	2,320	0.44	-	-	2U-CG	O	20	101	100	100%	200	200	220	220	44	44	175	176	
akeview Pkwy.	W. City Limit	E. City Limit	14,390	2.73	3	3	9	<b>A</b> +	GD	1,755	1,670	20%	700	200	2,862	2,862	2,392	2,276	470	586	
Industrial St.	725' W. of Martin Dr.	PGBT SBFR	3,010	0.57	-	1	2U-CG	O	20	75	75	100%	200	200	285	285	43	43	242	242	
Melcer Dr.	Rowlett Rd.	Martin Dr.	1,575	0.30	-	-	2U-CG	ပ	2U	75	75	100%	200	200	149	149	22	22	127	127	
Main St.	Lakeview Pkwy.	310' W. of Rowlett Rd.	3,060	0.58	-	-	2U-A	8	40	282	164	100%	450	450	261	261	163	98	86	166	
Main St.	310' W. of Rowlett Rd.	Rowlett Rd.	310	90.0	2	2	40	В	40	282	164	100%	200	200	59	59	17	10	42	49	
Main St.	Rowlett Rd.	280' W. of Commerce St.	645	0.12	-	-	2U-CG	84	2D	282	164	100%	200	200	61	61	34	20	27	41	
Main St.	280' W. of Commerce St.	Ponder St.	720	0.14	-	-	2U-CG	B1	2D	282	164	100%	200	200	89	89	38	22	30	46	
Main St.	Ponder St.	Skyline Dr.	700	0.13	-	-	2U-CG	B1	2D	282	164	100%	200	200	99	99	37	22	59	45	
Main St.	Skyline Dr.	530' E. of Skyline Dr.	530	0.10	-	-	30	B2	30	282	164	100%	220	550	55	55	28	16	27	39	
Main St.	530' E. of Skyline Dr.	PGBT SBFR	1,360	0.26	-	-	2U-A	B2	30	230	195	100%	450	450	116	116	59	20	22	99	
Main St.	PGBT SBFR	1,090' E. of PGBT	1,490	0.28	2	2	40	O	20	230	195	100%	200	200	282	282	65	55	217	227	
.55.	1,090' E. of PGBT	E. City Limit	1,365	0.26	-	-	2U-CG	O	2N	230	195	100%	200	200	129	129	90	20	20	6/	
Miller Rd.	Dexham Rd.	360' E. of PGBT NBFR	10,120	1.92	2	2	40	ď	9	635	664	100%	650	650	2,492	2,492	1,216	1,272	1,276	1,220	
r Rd.	360' E. of PGBT NBFR	E. City Limit	4,240	0.80	-	-	ZU-A	٧	GD	682	509	100%	450	450	361	361	547	409	-186	-47	186
Chaha Rd.	Rowlett Rd.	Chaha Rd.	2,350	0.45	-	-	2U-A	O	2N	148	213	100%	450	450	200	200	99	95	134	106	
Kirby Rd.	Chaha Rd.	PGBT SBFR	2,490	0.47	-	-	2U-A	U	2O	72	142	100%	450	450	212	212	34	29	178	145	
Dexham Rd.	Lakeview Pkwy.	Miller Rd.	5,710	1.08	-	-	ZU-A	O	20	722	184	100%	450	450	487	487	246	199	241	287	
Martin Dr.	Lakeview Pkwy.	Coyle St.	1,565	0:30	-	-	2U-CG	O	20	75	75	100%	200	200	148	148	22	22	126	126	
Skyline Rd.	Main St.	Miller Rd.	3,410	0.65	-	-	2U-CG	8	4U	75	75	100%	200	200	323	323	48	48	274	274	
Rowlett Rd.	Lakeview Pkwy.	Miller Rd.	4,935	0.93	3	3	9	۷	<b>GD</b>	1,178	1,012	100%	200	200	1,963	1,963	1,101	946	862	1,017	
Rowett Rd.	Miller Rd.	S. City Limit	10,205	1.93	2	2	9	å	4	1.033	972	100%	650	650	2 513	2513	1 996	1 879	516	633	
SUBTOTAL															2,0,12		1	0101	1	200	1

Kimley » Horn

Rowlett

### Appendix D – Land Use Assumptions

Jeff Whitacre, P.E., AICP Kimley- Horn 801 Cherry Street, Suite 950, Fort Worth, TX 76102

### **RE: Rowlett Impact Fee Updates**

Mr. Whitacre,

In order to facilitate the updating of the City or Rowlett Impact fees, the City has prepared the following land use assumption information for Kimley-Horn.

### As requested we have provided:

- Current population in terms of persons and household,
- 10 year population growth in terms of persons and household,
- Final build out projections in terms of persons and household,
- Ten year growth for retail, basic, and service employment in square feet, and
- Total building out of retail, basic, and service employment in square feet.

### **Population**

Population projection information was recently included in the Realize Rowlett Downtown report prepared by Ricker | Cunningham. Their projection is based on the comprehensive plan and potential build-out given market realities. The existing population data was pulled from the 2010 US census. Single family building permits issued since the census were used to estimate the current population and number of households. Please see Table 1 below.

Table 1 – Current and Projected Population Data

	2010 Census Population	Existing population (Feb. 2013) <sup>1</sup>	Projected 2023 Population <sup>2</sup>	Build-Out Projection
Households	18,371	18,513	22,310	28,600
Persons	56,199	56,633	65,366	85,800

<sup>&</sup>lt;sup>1</sup>Based on 2010 census, permits issued for single family homes since 2010, and average 2010 Rowlett household size

As a note to the projected 2023 household population data, approximately 1,128 single family ownership units have either been platted or received zoning to date. These projects are all projected for

<sup>&</sup>lt;sup>2</sup>Based on Downtown Report by Ricker | Cunningham

completion within the next ten years. This is approximately 1/3 of the ten year projected household growth that is already in the development process.

### **Employment**

Employment growth is another key factor in determining traffic and impact fees. The Downtown Report by Ricker|Cunningham included market analysis of Rowlett in regards to the trade area and presented growth in various fields by square feet. The report provided Rowlett capture numbers for the trade area. Unfortunately, no accurate data for existing square footage was found. As such, these numbers were omitted. Only the ten year growth and final projection numbers are presented here. Attachment A is the letter provided by Ricker|Cunningham further explaining the methodology behind the final build-out employment numbers. Rowlett has used scenario 1 as presented in the letter. Please see Table 2 below.

Table 2 - Employment Growth Projections

	2023 Projected Increase Employment (sq ft) <sup>1</sup>	Total Build-Out Employment (sq ft) <sup>2</sup>
Retail	+930,000	7,109,520
Service	+450,000	1,777,380
Basic	+650,000	2,539,800

<sup>&</sup>lt;sup>1</sup>From Ricker | Cunningham Downtown Report for Rowlett

### Location of Growth

The location of growth is also important for calculating impact fees. Attachment B is the map of 10 year projected growth and Attachment C is the map showing final build out. These maps were informed by the Realize Rowlett 2020 Plan, current projects and development inquires. From the maps it is clear that most new growth will be in service area 1, along PGBT. Apart from this large area there is opportunity for smaller projects, included infill and redevelopment projects throughout the City of Rowlett.

Please let us know if additional information is needed and we will be happy to provide it. We can also provide GIS shapefiles of the projected growth if that would be helpful.

Regards,

Michele Berry

Michel Deny

Planner II

<sup>&</sup>lt;sup>2</sup>Based on Realize Rowlett 2020 trade area estimates by Ricker | Cunningham, 25 percent Rowlett capture.



12 February 2013

Ms. Michelle Berry Planner I Department of Public Works / Planning Division City of Rowlett 4000 Main Street Rowlett, TX 750303-0099

Dear Ms. Berry:

On behalf of RickerlCunningham (RC), Real Estate Economists and Community Strategists, we are pleased to present the following forecast for the City of Rowlett. What follows are estimates of: total population, total employment, total number of dwelling units, and total square feet of employment space by category (basic – which we are assuming means office and industrial space, service – which we are assuming means service retail, and retail – which is all retail other than service) along with a description of our methodology. You will see that we have provided two separate estimates for each indicator. As you know, growth and development within the City has been and will continue to be influenced by a number of factors including: regulations (zoning), policies, and select market forces. Whereas we cannot know how these factors might change over time, we are providing a range of estimates based on assumptions associated with two distinctly different growth scenarios. The assumptions associated with each scenario accompany the figures. Please feel free to use whichever ones you believe most closely reflect current conditions within the City.

### Methodology

As you know, we have been engaged by the City of Rowlett consistently since 2008. To-date we have provided: independent financial analyses for two separate developments requesting City participation; market, financial and fiscal analyses of alternative land use concepts prepared in association with the update to your comprehensive plan; detailed market and financial analyses of potential development programs within four of the City's 13 priority investment areas; a review of proposed regulations (form-based code) from a market perspective; and, a fiscal analysis of the City's current zoning. We are currently working on the design of a deficit reduction model (fiscal impact) to be used in association with new development applications; and, we are about to begin more detailed market and financial analyses in a fifth priority investment area. Collectively this work has provided us with a thorough understanding of the City's existing: inventory of developed and undeveloped parcels; completed and planned infrastructure; regulations; policies; plans and vision. Our market work has provided us with an understanding of Rowlett's investment potential and ability to capture market share across a range of different land uses and product types. It is our understanding of both physical and market conditions which informed the estimates presented below.



### Conclusion

If you have any questions regarding this submittal, please contact either Anne Ricker or Bill Cunningham at 303.458.5800. Both of these individuals are authorized to speak on behalf of RickerlCunningham.

Sincerely,

RickerlCunningham

Anne B. Ricker Principal

anne@rickercunningham.com

Bill J. Cunningham

Principal

bill@rickercunningham.com

### Scenario No. 1: Bedroom Community

	Total @ Build-out	Total Population / Employment
Land Use:		
Residential (Units)	28,600	85,800
Basic Employment Space	2,539,800	6,350
Retail - Service	1,777,380	4,445
Retail - Non-Service	7,109,520	17,775

\* Some figures are rounded.

Source: City of Rowlett; North Central Texas Council of Governments; and, Ricker|Cunningham.

### Assumptions:

- There will be more emphasis on residential rather than non-residential development.
- Of the residential units that will complete the City's inventory, the vast majority will be single family detached with a larger household size.
- New development will be more closely in-line with the zoning that existed prior to passage of the form-based code in the four (of 13) priority investment areas.
- Properties with a Planned Unit Developments (PUDs) designation will develop with a mix of residential and non-residential uses - approximately 80% residential and 20% non-residential.



- There will be no increase in density within existing established single family neighborhoods.
- There will be no extraordinary efforts made by the City to inform and direct development.
- There will be no proactive strategy for completing or improving infrastructure in either developed or undeveloped areas. Improvements will be piece-meal as new developments come forward.
- Retail (Service and Non-Service) Space per Employee 400 square feet
- Office Space per Employee 200 square feet
- Industrial Space per Employee 500 square feet (Manufacturing), 350 square feet (Non-Manufacturing)

Scenario No. 2: Live-Work Community

	Total @ Build-out	Total Population / Employment
Land Use:		
Residential (Units)	27,900	78,120
Basic Employment Space	4,180,400	10,450
Retail - Service	1,777,380	4,445
Retail – Non-Service	7,109,520	17,775

\* Some figures are rounded.

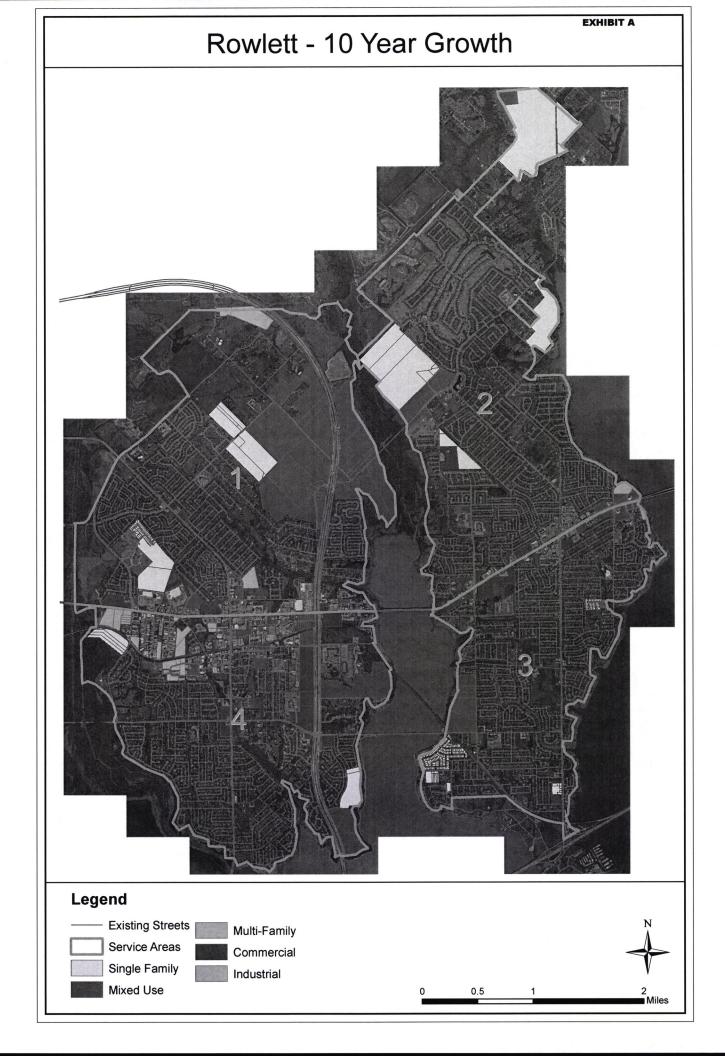
Source: City of Rowlett; North Central Texas Council of Governments; and, Ricker Cunningham.

### Assumptions:

- There will be a balanced emphasis on both residential and basic employment development (office and industrial space).
- Of the residential units that will complete the City's inventory, there will be a greater diversity of product in both form (attached and detached) and price point.
- While the total number of dwelling units will be less than under the "bedroom community" scenario, the total population will be significantly less due to the higher number of units with fewer occupants.
- Densities within new developments will be moderate (in the middle of the range allowed for under the form-based code) in the priority investment areas.
- Properties with a Planned Unit Developments (PUDs) designation will develop with a mix of residential and non-residential uses - approximately 2/3 residential and 1/3 nonresidential.
- Mixed-use developments will have as much residential square feet over first floor commercial as they will office square feet over first floor commercial. Note: These assumptions are at build-out and therefore ignore the allowance within the form-based code for first floor residential as an interim use.



- There will be no increase in density within existing established single family neighborhoods.
- There will be efforts made by the City to inform and direct development into select priority investment areas.
- There will be strategic efforts made to share (with the private sector) in the cost of improving infrastructure earlier rather than later.
- Retail (Service and Non-Service) Space per Employee 400 square feet
- Office Space per Employee 200 square feet
- Industrial Space per Employee 500 square feet (Manufacturing), 350 square feet (Non-Manufacturing)



### Rowlett - Build Out



### Percent of Expected Employment and Residential Growth Allocated to Service Areas by Category

		Service Area 1	Service Area 2	Service Area 3	Service Area 4
10 Year					
Growth	Retail	44%	7%	15%	34%
	Basic	65%	0%	0%	35%
	Service	50%	10%	15%	25%
	Households/Population	40%	40%	8%	12%
		Service Area 1	Service Area 2	Service Area 3	Service Area 4

KHA MODIFIED % to add up correctly to 100%



### **Bayside**

Bayside Land Partners plans for Bayside to become a mixed-use development utilizing the City's form-base codes. Bayside will include housing options for every stage of life, from condos right on up to large luxury homes, expansive green space areas with water-front parks, marinas and resort-style amenities!

Approximately 1,750,000 square feet of commercial space.

Approximately 3,000 residential units.

8-10 year build out.

### NORTH SIDE PROJECT AREA

**CONCEPT PLAN - 142 ACRES** 

Wrban Village District - 50 acres • • • • • • Mixed multi-family residential - 700 units Office/medical office - 215,000 square feet Commercial retail - 165,000 square feet

New Neighborhood District – 92 acres 

Single family residential – 360 units

### SOUTH SIDE PROJECT AREA

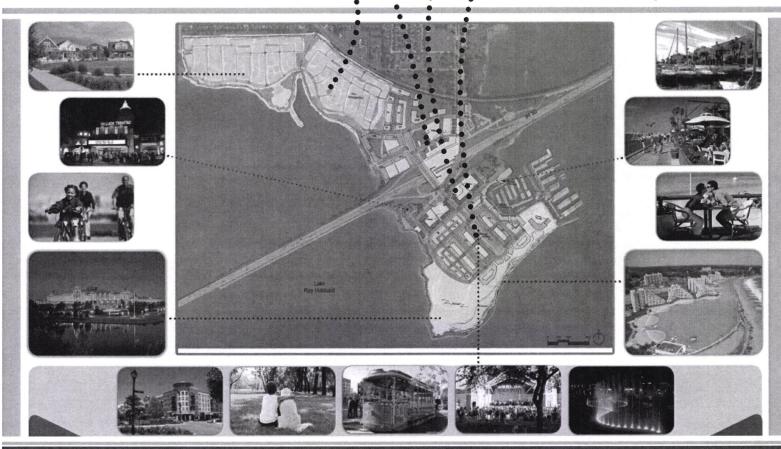
**CONCEPT PLAN - 117 ACRES** 

- Urban Village District 22 acres

  Mixed multi-family residential 1,774 units

  Office/medical office 215,000 square feet

  10-story condo tower 100 units
- Special District 95 acres
  Specialty retail 310,000 square feet
  Specialty restaurants 150,000 square feet
  Hotel (limited service) 200,000 square feet
  Resort hotel 5000,000 square feet



ROWLETT'S COMMITMENT TO BAYSIDE ENSURES THE CREATION OF A TRULY UNIQUE PLACE, WHICH WILL BE ENJOYED BY THIS GENERATION AND MANY MORE TO COME. WE ARE EXCITED TO BE ENTRUSTED WITH THIS LEGACY PROJECT FOR ROWLETT AND THE ENTIRE DFW METROPLEX!

Kent Donahue - Bayside Land Partners

### **EXHIBIT B**

Land Use Category	Development Unit	Veh-Mi Per Dev- Unit	Maximum Impact Fee	% of Maximum	Adopted Impact Fee
PORT AND TERMINAL					
Truck Terminal	Acre	32.75	\$ 15,261.00	75%	\$ 11,429.50
INDUSTRIAL					
General Light Industrial	1,000 SF GFA	4.85	\$ 2,260.00	30%	\$ 677.00
General Heavy Industrial	1,000 SF GFA	3.40	\$ 1,584.00	75%	\$ 1,186.50
Industrial Park	1,000 SF GFA	4.30	\$ 2,003.00	30%	\$ 600.20
Warehousing	1,000 SF GFA	1.60	\$ 745.00	30%	\$ 223.20
Mini-Warehouse	1,000 SF GFA	1.30	\$ 605.00	75%	\$ 453.50
RESIDENTIAL					10
Single-Family Detached Housing	Dwelling Unit	5.00	\$ 2,330.00	100%	\$ 2,330.00
Apartment/Multi-family	Dwelling Unit	3.10	\$ 1,444.00	97%	\$ 1,405.95
Residential Condominium/Townhome	Dwelling Unit	2.60	\$ 1,211.00	97%	\$ 1,179.10
Senior Adult Housing-Detached	Dwelling Unit	1.35	\$ 629.00	97%	\$ 612.30
Senior Adult Housing-Attached	Dwelling Unit	0.80	\$ 372.00	98%	\$ 362.70
Assisted Living	Beds	1.10	\$ 512.00	97%	\$ 498.55
LODGING					
Hotel	Room	1.90	\$ 885.00	30%	\$ 265.20
Motel / Other Lodging Facilities	Room	1.51	\$ 703.00	30%	\$ 210.60
RECREATIONAL					
Golf Driving Range	Tee	4.03	\$ 1,877.00	30%	\$ 562.40
Golf Course	Acre	0.97	\$ 452.00	30%	\$ 135.40
Recreational Community Center	1,000 SF GFA	4.67	\$ 2,176.00	30%	\$ 651.80
Ice Skating Rink	1,000 SF GFA	7.60	\$ 3,541.00	30%	\$ 1,060.80
Miniature Golf Course	Hole	1.06	\$ 493.00	30%	\$ 147.80
Multiplex Movie Theater	Screens	43.92	\$ 20,466.00	30%	\$ 6,131.20
Racquet / Tennis Club	Court	10.79	\$ 5,028.00	30%	\$ 1,506.20
INSTITUTIONAL					
Church	1,000 SF GFA	1.16	\$ 540.00	75%	\$ 404.50
Day Care Center	1,000 SF GFA	14.66	\$ 6,831.00	75%	\$ 5,116.00
Primary/Middle School (1-8)	Students	0.34	\$ 158.00	30%	\$ 47.40
High School	Students	0.27	\$ 125.00	30%	\$ 37.60
Junior / Community College	Students	0.25	\$ 116.00	30%	\$ 34.80
University / College	Students	0.44	\$ 205.00	30%	\$ 61.40
MEDICAL			5		=
Clinic	1,000 SF GFA	19.58	\$ 9,124.00	30%	\$ 2,733.20
Hospital	Beds	4.95	\$ 2,306.00	30%	\$ 691.00
Nursing Home	Beds	0.83	\$ 386.00	30%	\$ 115.80
Animal Hospital/Veterinary Clinic	1,000 SF GFA	12.47	\$ 5,811.00	75%	\$ 4,352.00
OFFICE					
Corporate Headquarters Building	1,000 SF GFA	7.00	\$ 3,262.00	30%	\$ 977.20
General Office Building	1,000 SF GFA	7.45	\$ 3,471.00	30%	\$ 1,040.00
Medical-Dental Office Building	1,000 SF GFA	17.30	\$ 8,061.00	30%	\$ 2,415.00
Single Tenant Office Building	1,000 SF GFA	8.65	\$ 4,030.00	30%	\$ 1,207.40
Office Park	1,000 SF GFA	7.40	\$ 3,448.00	30%	\$ 1,033.00

### **EXHIBIT B**

Land Use Category	Development Unit	Veh-Mi Per Dev- Unit	Maximum Impact Fee	% of Maximum	Adopted Impact Fee
COMMERCIAL					
Automobile Related					-
Automobile Care Center	1,000 SF Occ. GLA	6.54	\$ 3,047.00	75%	\$ 2,282.00
Automobile Parts Sales	1,000 SF GFA	10.98	\$ 5,116.00	75%	\$ 3,832.00
Gasoline/Service Station	Vehicle Fueling Position	4.82	\$ 2,246.00	75%	\$ 1,682.00
Gasoline/Service Station w/ Conv Market	Vehicle Fueling Position	3.53	\$ 1,644.00	75%	\$ 1,231.50
Gasoline/Service Station w/ Conv Market and Car Wash	Vehicle Fueling Position	3.68	\$ 1,714.00	75%	\$ 1,284.00
New Car Sales	1,000 SF GFA	6.67	\$ 3,108.00	75%	\$ 2,327.50
Quick Lubrication Vehicle Shop	Servicing Positions	10.01	\$ 4,664.00	75%	\$ 3,493.00
Self-Service Car Wash	Stall	1.99	\$ 927.00	75%	\$ 694.50
Tire Store	1,000 SF GFA	9.63	\$ 4,487.00	75%	\$ 3,360.50
Dining					
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	40.61	\$ 18,924.00	75%	\$ 14,172.50
Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA	31.39	\$ 14,627.00	75%	\$ 10,955.00
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	15.26	\$ 7,111.00	30%	\$ 2,130.20
Quality Restaurant	1,000 SF GFA	10.06	\$ 4,687.00	30%	\$ 1,404.20
Coffee/Donut Shop with Drive-Thru Window	1,000 SF GFA	30.91	\$ 14,404.00	75%	\$ 10,787.50
Other Retail					
Free-Standing Discount Store	1,000 SF GFA	11.27	\$ 5,251.00	75%	\$ 3,933.00
Nursery (Garden Center)	1,000 SF GFA	8.57	\$ 3,993.00	75%	\$ 2,990.50
Home Improvement Superstore	1,000 SF GFA	3.96	\$ 1,845.00	75%	\$ 1,382.00
Pharmacy/Drugstore w/o Drive-Thru Window	1,000 SF GFA	12.75	\$ 5,941.00	75%	\$ 4,449.50
Pharmacy/Drugstore w/ Drive-Thru Window	1,000 SF GFA	17.00	\$ 7,922.00	75%	\$ 5,933.00
Shopping Center	1,000 SF GLA	7.89	\$ 3,676.00	75%	\$ 2,753.50
Supermarket	1,000 SF GFA	21.64	\$ 10,084.00	75%	\$ 7,552.00
Toy/Children's Superstore	1,000 SF GFA	11.24	\$ 5,237.00	75%	\$ 3,922.50
Department Store	1,000 SF GFA	4.03	\$ 1,877.00	75%	\$ 1,406.00
Video Rental Store	1,000 SF GFA	21.90	\$ 10,205.00	75%	\$ 7,643.00
SERVICES					
Walk-In Bank	1,000 SF GFA	12.38	\$ 5,769.00	75%	\$ 4,320.50
Drive-In Bank	Drive-in Lanes	24.70	\$ 11,510.00	75%	\$ 8,620.00
Hair Salon	1,000 SF GLA	1.73	\$ 806.00	75%	\$ 603.50

Land Use Category	Development Unit	Add	Adopted Impact Fee	
PORT AND TERMINAL				
Truck Terminal	Acre	\$	11,429.50	
INDUSTRIAL				
General Light Industrial	1,000 SF GFA	\$	677.00	
General Heavy Industrial	1,000 SF GFA	\$	1,186.50	
Industrial Park	1,000 SF GFA	\$	600.20	
Warehousing	1,000 SF GFA	\$	223.20	
Mini-Warehouse	1,000 SF GFA	\$	453.50	
RESIDENTIAL				
Single-Family Detached Housing	Dwelling Unit	\$	3,490.00	
Apartment/Multi-family	Dwelling Unit	\$	1,405.95	
Residential Condominium/Townhome	Dwelling Unit	\$	1,179.10	
Senior Adult Housing-Detached	Dwelling Unit	\$	612.30	
Senior Adult Housing-Attached	Dwelling Unit	\$	362.70	
Assisted Living	Beds	\$	498.55	
LODGING				
Hotel	Room	\$	265.20	
Motel / Other Lodging Facilities	Room	\$	210.60	
RECREATIONAL				
Golf Driving Range	Tee	\$	562.40	
Golf Course	Acre	\$	135.40	
Recreational Community Center	1,000 SF GFA	\$	651.80	
Ice Skating Rink	1,000 SF GFA	\$	1,060.80	
Miniature Golf Course	Hole	\$	147.80	
Multiplex Movie Theater	Screens	\$	6,131.20	
Racquet / Tennis Club	Court	\$	1,506.20	
INSTITUTIONAL				
Church	1,000 SF GFA	\$	404.50	
Day Care Center	1,000 SF GFA	\$	5,116.00	
Primary/Middle School (1-8)	Students	\$	47.40	
High School	Students	\$	37.60	
Junior / Community College	Students	\$	34.80	
University / College	Students	\$	61.40	
MEDICAL				
Clinic	1,000 SF GFA	\$	2,733.20	
Hospital	Beds	\$	691.00	
Nursing Home	Beds	\$	115.80	
Animal Hospital/Veterinary Clinic	1,000 SF GFA	\$	4,352.00	
OFFICE				
Corporate Headquarters Building	1,000 SF GFA	\$	977.20	
General Office Building	1,000 SF GFA \$		1,040.00	
Medical-Dental Office Building	1,000 SF GFA \$		2,415.00	
Single Tenant Office Building	1,000 SF GFA	A \$ 1,207.		
Office Park	1,000 SF GFA	\$	1,033.00	

2016 Roadway Impact Fee Study Minor Update - Service Area 1

2016 Roadway Impact Fee Study Minor Update - Service Area 1						
Land Use Category	Development Unit	Adopted Impact Fee				
COMMERCIAL						
Automobile Related						
Automobile Care Center	1,000 SF Occ. GLA	\$ 2,282.00				
Automobile Parts Sales	1,000 SF GFA	\$ 3,832.00				
Gasoline/Service Station	Vehicle Fueling Position	\$ 1,682.00				
Gasoline/Service Station w/ Conv Market	Vehicle Fueling Position	\$ 1,231.50				
Gasoline/Service Station w/ Conv Market and Car Wash	Vehicle Fueling Position	\$ 1,284.00				
New Car Sales	1,000 SF GFA	\$ 2,327.50				
Quick Lubrication Vehicle Shop	Servicing Positions	\$ 3,493.00				
Self-Service Car Wash	Stall	\$ 694.50				
Tire Store	1,000 SF GFA	\$ 3,360.50				
Dining		2				
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	\$ 14,172.50				
Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA	\$ 10,955.00				
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	\$ 2,130.20				
Quality Restaurant	1,000 SF GFA	\$ 1,404.20				
Coffee/Donut Shop with Drive-Thru Window	1,000 SF GFA	\$ 10,787.50				
Other Retail						
Free-Standing Discount Store	1,000 SF GFA	\$ 3,933.00				
Nursery (Garden Center)	1,000 SF GFA	\$ 2,990.50				
Home Improvement Superstore	1,000 SF GFA	\$ 1,382.00				
Pharmacy/Drugstore w/o Drive-Thru Window	1,000 SF GFA	\$ 4,449.50				
Pharmacy/Drugstore w/ Drive-Thru Window	1,000 SF GFA	\$ 5,933.00				
Shopping Center	1,000 SF GLA	\$ 2,753.50				
Supermarket	1,000 SF GFA	\$ 7,552.00				
Toy/Children's Superstore	1,000 SF GFA	\$ 3,922.50				
Department Store	1,000 SF GFA	\$ 1,406.00				
Video Rental Store	1,000 SF GFA	\$ 7,643.00				
SERVICES						
Walk-In Bank	1,000 SF GFA	\$ 4,320.50				
Drive-In Bank	Drive-in Lanes	\$ 8,620.00				
Hair Salon	1,000 SF GLA	\$ 603.50				

Land Use Category	Land Use Category Development Unit		Adopted Impact Fee	
PORT AND TERMINAL				
Truck Terminal	Acre	\$	11,429.50	
INDUSTRIAL				
General Light Industrial	1,000 SF GFA	\$	677.00	
General Heavy Industrial	1,000 SF GFA	\$	1,186.50	
Industrial Park	1,000 SF GFA	\$	600.20	
Warehousing	1,000 SF GFA	\$	223.20	
Mini-Warehouse	1,000 SF GFA	\$	453.50	
RESIDENTIAL				
Single-Family Detached Housing	Dwelling Unit	\$	2,330.00	
Apartment/Multi-family	Dwelling Unit	\$	1,405.95	
Residential Condominium/Townhome	Dwelling Unit	\$	1,179.10	
Senior Adult Housing-Detached	Dwelling Unit	\$	612.30	
Senior Adult Housing-Attached	Dwelling Unit	\$	362.70	
Assisted Living	Beds	\$	498.55	
LODGING			- A	
Hotel	Room	\$	265.20	
Motel / Other Lodging Facilities	Room	\$	210.60	
RECREATIONAL				
Golf Driving Range	Tee	\$	562.40	
Golf Course	Acre	\$	135.40	
Recreational Community Center	1,000 SF GFA	\$	651.80	
Ice Skating Rink	1,000 SF GFA	\$	1,060.80	
Miniature Golf Course	Hole	\$	147.80	
Multiplex Movie Theater	Screens	\$	6,131.20	
Racquet / Tennis Club	Court	\$	1,506.20	
INSTITUTIONAL				
Church	1,000 SF GFA	\$	404.50	
Day Care Center	1,000 SF GFA	\$	5,116.00	
Primary/Middle School (1-8)	Students	\$	47.40	
High School	Students	\$	37.60	
Junior / Community College	Students	\$	34.80	
University / College	Students	\$	61.40	
MEDICAL				
Clinic	1,000 SF GFA	\$	2,733.20	
Hospital	Beds	\$	691.00	
Nursing Home	Beds	\$	115.80	
Animal Hospital/Veterinary Clinic	1,000 SF GFA	\$	4,352.00	
OFFICE				
Corporate Headquarters Building	1,000 SF GFA	\$	977.20	
General Office Building	1,000 SF GFA	\$	1,040.00	
Medical-Dental Office Building	1,000 SF GFA	\$	2,415.00	
Single Tenant Office Building	1,000 SF GFA \$		1,207.40	
Office Park	1,000 SF GFA	\$	1,033.00	

2016 Roadway Impact Fee Study Minor Update - Service Area 2

Land Use Category	Development Unit	Adopted Impact Fee	
COMMERCIAL			
Automobile Related			
Automobile Care Center	1,000 SF Occ. GLA	\$ 2,282.00	
Automobile Parts Sales	1,000 SF GFA	\$ 3,832.00	
Gasoline/Service Station	Vehicle Fueling Position	\$ 1,682.00	
Gasoline/Service Station w/ Conv Market	Vehicle Fueling Position	\$ 1,231.50	
Gasoline/Service Station w/ Conv Market and Car Wash	Vehicle Fueling Position	\$ 1,284.00	
New Car Sales	1,000 SF GFA	\$ 2,327.50	
Quick Lubrication Vehicle Shop	Servicing Positions	\$ 3,493.00	
Self-Service Car Wash	Stall	\$ 694.50	
Tire Store	1,000 SF GFA	\$ 3,360.50	
Dining			
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	\$ 14,172.50	
Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA	\$ 10,955.00	
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	\$ 2,130.20	
Quality Restaurant	1,000 SF GFA	\$ 1,404.20	
Coffee/Donut Shop with Drive-Thru Window	1,000 SF GFA	\$ 10,787.50	
Other Retail	9		
Free-Standing Discount Store	1,000 SF GFA	\$ 3,933.00	
Nursery (Garden Center)	1,000 SF GFA	\$ 2,990.50	
Home Improvement Superstore	1,000 SF GFA	\$ 1,382.00	
Pharmacy/Drugstore w/o Drive-Thru Window	1,000 SF GFA	\$ 4,449.50	
Pharmacy/Drugstore w/ Drive-Thru Window	1,000 SF GFA	\$ 5,933.00	
Shopping Center	1,000 SF GLA	\$ 2,753.50	
Supermarket	1,000 SF GFA	\$ 7,552.00	
Toy/Children's Superstore	1,000 SF GFA	\$ 3,922.50	
Department Store	1,000 SF GFA	\$ 1,406.00	
Video Rental Store	1,000 SF GFA	\$ 7,643.00	
SERVICES		1	
Walk-In Bank	1,000 SF GFA	\$ 4,320.50	
Drive-In Bank	Drive-in Lanes	\$ 8,620.00	
Hair Salon	1,000 SF GLA	\$ 603.50	

### MINUTES OF THE REGULAR MEETING OF THE CAPITAL IMPROVEMENT ADVISORY COMMITTEE OF THE CITY OF ROWLETT, TEXAS, HELD IN THE MUNICIPAL CENTER 4000 MAIN STREET, AT 6:00 P.M., JULY 26, 2016

**PRESENT:** Chairman Michael Lucas, Vice Chairman Jonas Tune, Commissioners Chris Kilgore, James Moseley, Lisa Estevez, Thomas Finney, Alternate Stephen Ritchey

**ABSENT:** Alternates Jason Berry, Kim Clark

**STAFF PRESENT:** Principal Planner Garrett Langford, Senior Planner Patricia Gottilly-Roberts, Planner I Katy Goodrich, Development Services Coordinator Lola Isom

### A. CALL TO ORDER

Member Michael Lucas called the meeting to order at 6:00 p.m.

### 1. Elect a Chairman and Vice Chairman.

Member James Moseley made a motion to nominate Member Chris Kilgore as the Chairman. Member Michael Lucas seconded the motion. The nomination passed with a 6-0 vote.

Chairman Chris Kilgore made a motion to nominate Member James Moseley as the Vice Chairman. Member Michael Lucas seconded the motion. The nomination passed with a 6-0 vote.

### **B. ITEMS FOR INDIVIDUAL CONSIDERATION**

1. Minutes of the Capital Improvement Advisory Committee Meeting of November 12, 2013.

Vice Chairman James Moseley made a motion to approve the minutes. Member Michael Lucas seconded the motion. The item passed with a 6-0 vote.

2. Conduct a public hearing and make a recommendation to City Council regarding amendments to the Land Use Assumptions and Capital Improvements Plan under which roadway impact fees may be amended.

Mr. Langford introduced Jeff Whitacre with Kimley-Horn who conducted a presentation over the amendments to the current impact fees. He provided a PowerPoint presentation, gave an overview of impact fees and the recoverable and non-recoverable costs, explained the role of the Capital Improvement Advisory Committee (CIAC), and explained that this particular update was

### MINUTES OF THE REGULAR MEETING OF THE CAPITAL IMPROVEMENT ADVISORY COMMITTEE OF THE CITY OF ROWLETT, TEXAS, HELD IN THE MUNICIPAL CENTER 4000 MAIN STREET, AT 6:00 P.M., JULY 26, 2016

to include the Bayside Development. Mr. Whitacre stated that Service Area 1 would not be

changing with the proposal, but Service Area 2 would be revised to add one additional project, Bayside.
There was discussion amongst the Committee regarding the single-family fee decreasing, density, drainage, service areas, and the practice of waiving impact fees.
Chairman Chris Kilgore opened the public hearing.
No speakers came forward.
Chairman Chris Kilgore closed the public hearing.
Member Michael Lucas made a motion to recommend approval of the request. Vice Chairman James Moseley seconded the motion. The motion passed with a 6-0 vote.
C. ADJOURNMENT
Chairman Chris Kilgore adjourned the meeting at 6:20 p.m.
Chairman Secretary

### 2013 Roadway Impact Fee Study Service Area 1

Land Use Category	Development Unit	Maximum Impact Fee	% of Maximum	Adopted Impact Fee
PORT AND TERMINAL	Aoro	\$28,001.00	41%	\$11,429.50
Truck Terminal INDUSTRIAL	Acre	\$28,001.00	4170	\$0.00
General Light Industrial	1,000 SF GFA	\$4,146.00	16%	\$677.00
General Heavy Industrial	1,000 SF GFA	\$2,907.00	41%	\$1,186.50
Industrial Park Warehousing	1,000 SF GFA 1,000 SF GFA	\$3,676.00 \$1,368.00	16% 16%	\$600.20 \$223.20
Mini-Warehouse	1,000 SF GFA	\$1,111.00	41%	\$453.50
RESIDENTIAL	-,			\$0.00
Single-Family Detached Housing	Dwelling Unit	\$4,275.00	82%	\$3,490.00
Apartment/Multi-family	Dwelling Unit Dwelling Unit	\$2,650.00 \$2,223.00	53%	\$1,405.95 \$1,179.10
Residential Condominium/Townhome Senior Adult Housing-Detached	Dwelling Unit	\$1,154.00	53%	\$612.30
Senior Adult Housing Detached  Senior Adult Housing-Attached	Dwelling Unit	\$684.00	53%	\$362.70
Assisted Living	Beds	\$940.00	53%	\$498.55
LODGING	D	61 (24.00	160/	\$0.00
Hotel Motel / Other Lodging Facilities	Room	\$1,624.00 \$1,291.00	16% 16%	\$265.20 \$210.60
RECREATIONAL	Noom	71,271.00		\$0.00
Golf Driving Range	Tee	\$3,445.00	16%	\$562.40
Golf Course	Acre	\$829.00	16%	\$135.40 \$651.80
Recreational Community Center	1,000 SF GFA 1,000 SF GFA	\$3,992.00 \$6,498.00	16% 16%	\$1,060.80
Ice Skating Rink Miniature Golf Course	Hole	\$906.00	16%	\$1,000.80
Multiplex Movie Theater	Screens	\$37,551.00	16%	\$6,131.20
Racquet / Tennis Club	Court	\$9,225.00	16%	\$1,506.20
INSTITUTIONAL				\$0.00
Church	1,000 SF GFA 1,000 SF GFA	\$991.00 \$12,534.00	41%	\$404.50 \$5,116.00
Day Care Center Primary/Middle School (1-8)	Students	\$12,534.00	16%	\$47.40
High School	Students	\$230.00	16%	\$37.60
Junior / Community College	Students	\$213.00	16%	\$34.80
University / College	Students	\$376.00	16%	\$61.40 \$0.00
MEDICAL Clinic	1,000 SF GFA	\$16,740.00	16%	\$2,733.20
Hospital	Beds	\$4,232.00	16%	\$691.00
Nursing Home	Beds	\$709.00	16%	\$115.80
Animal Hospital/Veterinary Clinic	1,000 SF GFA	\$10,661.00	41%	\$4,352.00
OFFICE Corporate Headquarters Building	1,000 SF GFA	\$5,985.00	16%	\$0.00 \$977.20
General Office Building	1,000 SF GFA	\$6,369.00	16%	\$1,040.00
Medical-Dental Office Building	1,000 SF GFA	\$14,791.00	16%	\$2,415.00
Single Tenant Office Building	1,000 SF GFA	\$7,395.00	16%	\$1,207.40
Office Park COMMERCIAL	1,000 SF GFA	\$6,327.00	16%	\$1,033.00 \$0.00
Automobile Related				\$0.00
Automobile Care Center	1,000 SF Occ. GLA	\$5,591.00	41%	\$2,282.00
Automobile Parts Sales	1,000 SF GFA	\$9,387.00	41%	\$3,832.00
Gasoline/Service Station	Vehicle Fueling Position  Vehicle Fueling Position	\$4,121.00 \$3,018.00	41%	\$1,682.00 \$1,231.50
Gasoline/Service Station w/ Conv Market Gasoline/Service Station w/ Conv Market and Car Wa	Vehicle Fueling Position  Vehicle Fueling Position	\$3,018.00	41%	\$1,284.00
New Car Sales	1,000 SF GFA	\$5,702.00	41%	\$2,327.50
Quick Lubrication Vehicle Shop	Servicing Positions	\$8,558.00	41%	\$3,493.00
Self-Service Car Wash Tire Store	Stall 1,000 SF GFA	\$1,701.00 \$8,233.00	41%	\$694.50 \$3,360.50
Dining	1,000 SF OFA	φο <sub>5</sub> Δ33.00	71/0	\$0.00
Fast Food Restaurant with Drive-Thru Window	1,000 SF GFA	\$34,721.00	41%	\$14,172.50
Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA	\$26,838.00	41%	\$10,955.00
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	\$13,047.00 \$8,601.00	16% 16%	\$2,130.20 \$1,404.20
Quality Restaurant Coffee/Donut Shop with Drive-Thru Window	1,000 SF GFA 1,000 SF GFA	\$8,601.00 \$26,428.00	41%	\$1,404.20
Other Retail		, -=		\$0.00
Free-Standing Discount Store	1,000 SF GFA	\$9,635.00	41%	\$3,933.00
Nursery (Garden Center)	1,000 SF GFA	\$7,327.00 \$3,385.00	41% 41%	\$2,990.50 \$1,382.00
Home Improvement Superstore Pharmacy/Drugstore w/o Drive-Thru Window	1,000 SF GFA 1,000 SF GFA	\$3,385.00 \$10,901.00	41%	\$1,382.00
Pharmacy/Drugstore w/ Drive-Thru Window	1,000 SF GFA	\$14,535.00	41%	\$5,933.00
Shopping Center	1,000 SF GLA	\$6,745.00	41%	\$2,753.50
Supermarket	1,000 SF GFA	\$18,502.00	41%	\$7,552.00
Toy/Children's Superstore Department Store	1,000 SF GFA 1,000 SF GFA	\$9,610.00 \$3,445.00	41% 41%	\$3,922.50 \$1,406.00
Video Rental Store	1,000 SF GFA	\$18,724.00	41%	\$7,643.00
SERVICES				\$0.00
Walk-In Bank	1,000 SF GFA	\$10,584.00	41%	\$4,320.50
Drive-In Bank	Drive-in Lanes 1,000 SF GLA	\$21,118.00 \$1,479.00	41% 41%	\$8,620.00 \$603.50

### 2013 Roadway Impact Fee Study Service Area 2

		vice in cu 2		
Land Use Category	Development Unit	Maximum Impact Fee	% of Maximum	Adopted Impact Fee
PORT AND TERMINAL				
Truck Terminal	Acre	\$22,859.00	50%	\$11,429.50
INDUSTRIAL	1 000 05 051	62 205 00	200/	
General Light Industrial	1,000 SF GFA 1,000 SF GFA	\$3,385.00 \$2,373.00	20% 50%	\$677.00 \$1,186.50
General Heavy Industrial Industrial Park	1,000 SF GFA	\$3,001.00	20%	\$600.20
Warehousing	1,000 SF GFA	\$1,116.00	20%	\$223.20
Mini-Warehouse	1,000 SF GFA	\$907.00	50%	\$453.50
RESIDENTIAL				
Single-Family Detached Housing	Dwelling Unit	\$3,490.00	100%	\$3,490.00
Apartment/Multi-family	Dwelling Unit	\$2,163.00	65% 65%	\$1,405.95 \$1,179.10
Residential Condominium/Townhome Senior Adult Housing-Detached	Dwelling Unit Dwelling Unit	\$1,814.00 \$942.00	65%	\$612.30
Senior Adult Housing-Detached Senior Adult Housing-Attached	Dwelling Unit	\$558.00	65%	\$362.70
Assisted Living	Beds	\$767.00	65%	\$498.55
LODGING				
Hotel	Room	\$1,326.00	20%	\$265.20
Motel / Other Lodging Facilities	Room	\$1,053.00	20%	\$210.60
RECREATIONAL Galf Driving Renge	Tan	\$2.012.00	200/	\$562.40
Golf Driving Range Golf Course	Tee Acre	\$2,812.00 \$677.00	20%	\$562.40 \$135.40
Recreational Community Center	1,000 SF GFA	\$3,259.00	20%	\$651.80
Ice Skating Rink	1,000 SF GFA	\$5,304.00	20%	\$1,060.80
Miniature Golf Course	Hole	\$739.00	20%	\$147.80
Multiplex Movie Theater	Screens	\$30,656.00	20%	\$6,131.20
Racquet / Tennis Club	Court	\$7,531.00	20%	\$1,506.20
INSTITUTIONAL				
Church	1,000 SF GFA	\$809.00	50%	\$404.50
Day Care Center	1,000 SF GFA	\$10,232.00	50%	\$5,116.00
Primary/Middle School (1-8)	Students	\$237.00	20%	\$47.40
High School	Students	\$188.00 \$174.00	20%	\$37.60 \$34.80
Junior / Community College University / College	Students Students	\$307.00	20%	\$61.40
MEDICAL	Students	\$307.00	2070	\$01.70
Clinic	1,000 SF GFA	\$13,666.00	20%	\$2,733.20
Hospital	Beds	\$3,455.00	20%	\$691.00
Nursing Home	Beds	\$579.00	20%	\$115.80
Animal Hospital/Veterinary Clinic	1,000 SF GFA	\$8,704.00	50%	\$4,352.00
OFFICE	1 000 05 054	#4.00C.00	200/	#077.30
Corporate Headquarters Building General Office Building	1,000 SF GFA 1,000 SF GFA	\$4,886.00 \$5,200.00	20%	\$977.20 \$1,040.00
Medical-Dental Office Building	1,000 SF GFA	\$12,075.00	20%	\$2,415.00
Single Tenant Office Building	1,000 SF GFA	\$6,037.00	20%	\$1,207.40
Office Park	1,000 SF GFA	\$5,165.00	20%	\$1,033.00
COMMERCIAL				
Automobile Related				
Automobile Care Center	1,000 SF Occ. GLA	\$4,564.00	50%	\$2,282.00
Automobile Parts Sales Gasoline/Service Station	1,000 SF GFA	\$7,664.00 \$3,364.00	50% 50%	\$3,832.00 \$1,682.00
Gasoline/Service Station Gasoline/Service Station w/ Conv Market	Vehicle Fueling Position Vehicle Fueling Position	\$2,463.00	50%	\$1,082.00
Gasoline/Service Station w/ Conv Market and Car Wa	Vehicle Fueling Position	\$2,568.00	50%	\$1,284.00
New Car Sales	1,000 SF GFA	\$4,655.00	50%	\$2,327.50
Quick Lubrication Vehicle Shop	Servicing Positions	\$6,986.00	50%	\$3,493.00
Self-Service Car Wash	Stall	\$1,389.00	50%	\$694.50
Tire Store	1,000 SF GFA	\$6,721.00	50%	\$3,360.50
Dining Fact Food Partourent with Drive Three Window	1,000 CE CEA	\$20.245.00	500/	\$14.172.50
Fast Food Restaurant with Drive-Thru Window Fast Food Restaurant without Drive-Thru Window	1,000 SF GFA 1,000 SF GFA	\$28,345.00 \$21,910.00	50% 50%	\$14,172.50 \$10,955.00
High Turnover (Sit-Down) Restaurant	1,000 SF GFA	\$21,910.00	20%	\$2,130.20
Quality Restaurant	1,000 SF GFA	\$7,021.00	20%	\$1,404.20
Coffee/Donut Shop with Drive-Thru Window	1,000 SF GFA	\$21,575.00	50%	\$10,787.50
Other Retail				
Free-Standing Discount Store	1,000 SF GFA	\$7,866.00	50%	\$3,933.00
Nursery (Garden Center)	1,000 SF GFA	\$5,981.00 \$2,764.00	50% 50%	\$2,990.50 \$1,382.00
Home Improvement Superstore Pharmacy/Drugstore w/o Drive-Thru Window	1,000 SF GFA 1,000 SF GFA	\$2,764.00 \$8,899.00	50%	\$1,382.00 \$4,449.50
Pharmacy/Drugstore w/o Drive-Thru Window  Pharmacy/Drugstore w/ Drive-Thru Window	1,000 SF GFA	\$11,866.00	50%	\$5,933.00
Shopping Center	1,000 SF GLA	\$5,507.00	50%	\$2,753.50
Supermarket	1,000 SF GFA	\$15,104.00	50%	\$7,552.00
Toy/Children's Superstore	1,000 SF GFA	\$7,845.00	50%	\$3,922.50
Department Store	1,000 SF GFA	\$2,812.00	50%	\$1,406.00
Video Rental Store	1,000 SF GFA	\$15,286.00	50%	\$7,643.00
SERVICES	1 000 CF CF 4	<b>69 (41 00</b>	500/	64 220 50
Walk-In Bank	1,000 SF GFA	\$8,641.00	50%	\$4,320.50 \$8,620.00
Drive-In Bank Hair Salon	Drive-in Lanes 1,000 SF GLA	\$17,240.00 \$1,207.00	50% 50%	\$603.50
Hui Saivii	1,000 SF GLA	φ1,4U1.UU	JU/0	Φ003.30